

09888061 062101  
T07290" T9088860

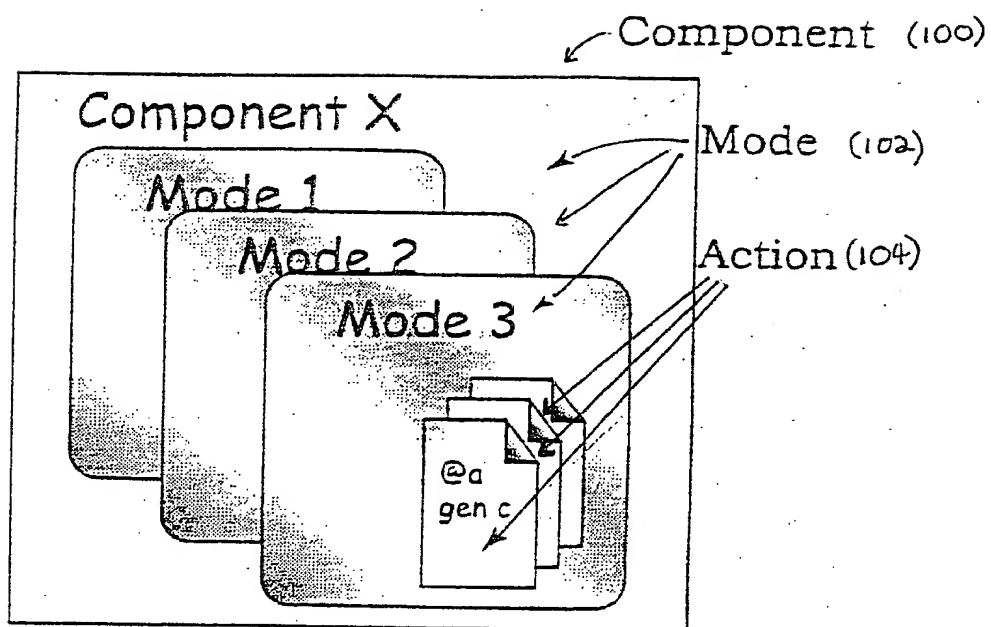


Figure 1

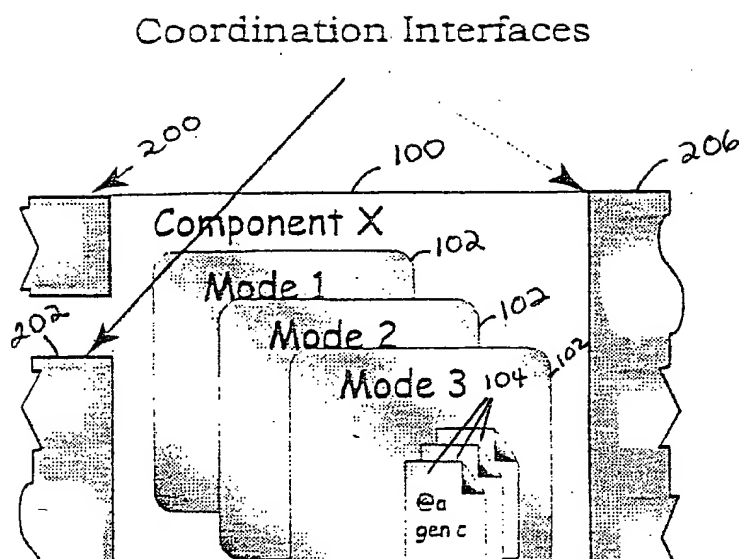


Figure 2

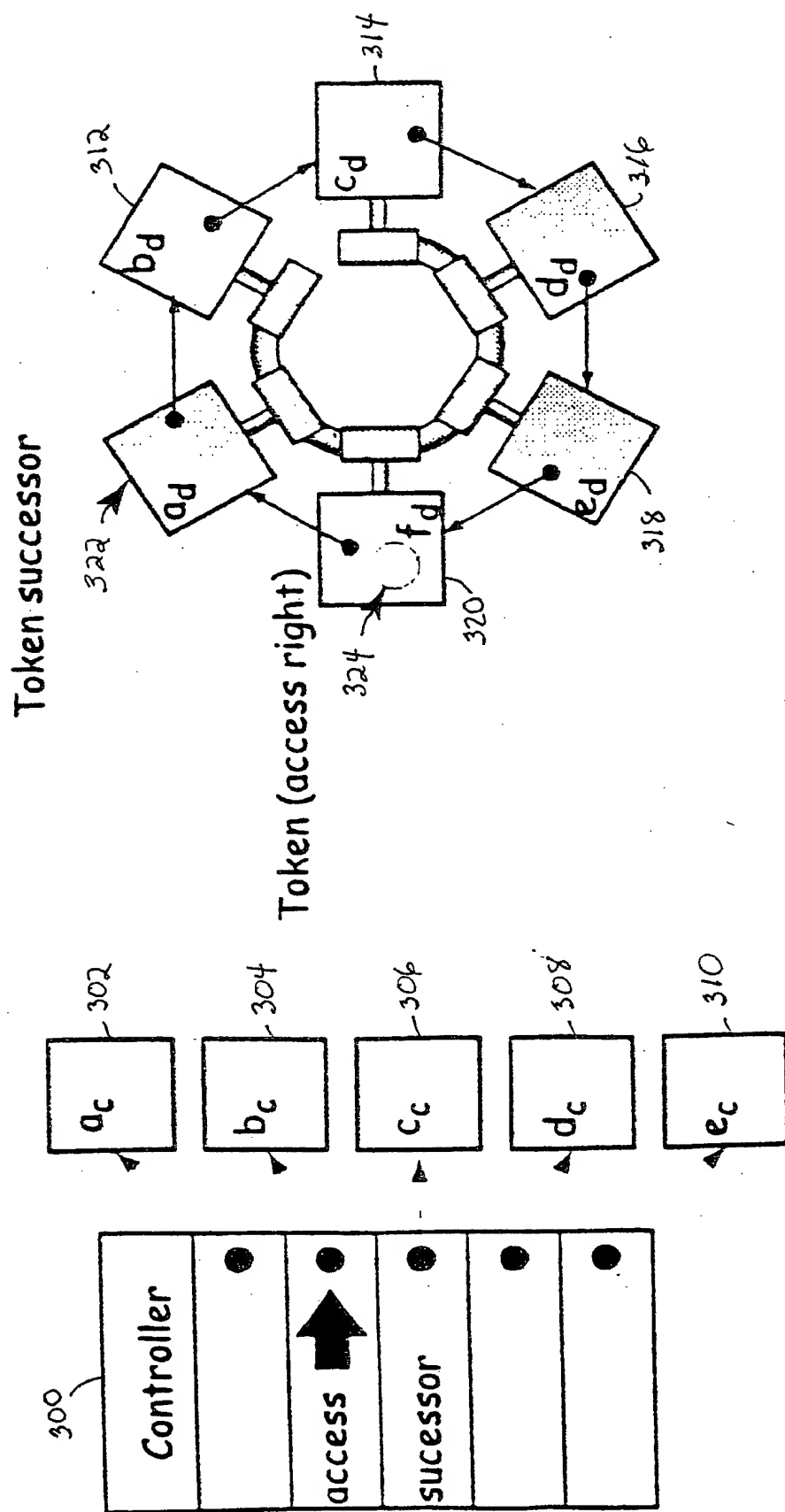


Figure 3B

Figure 3A

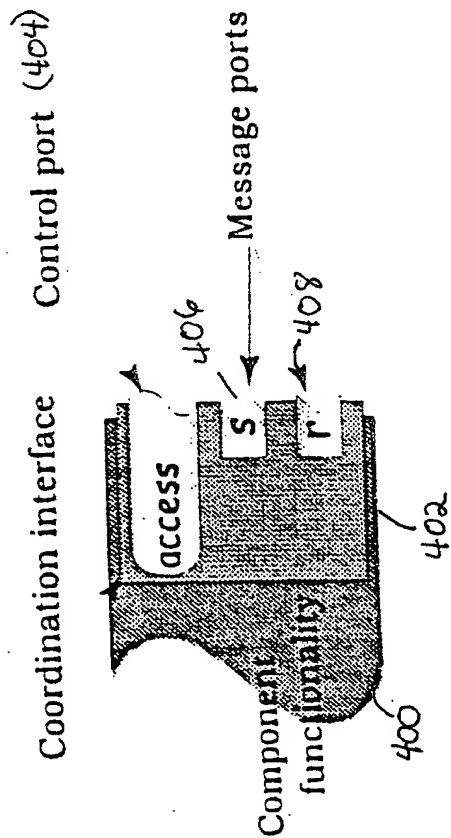


Figure 4A

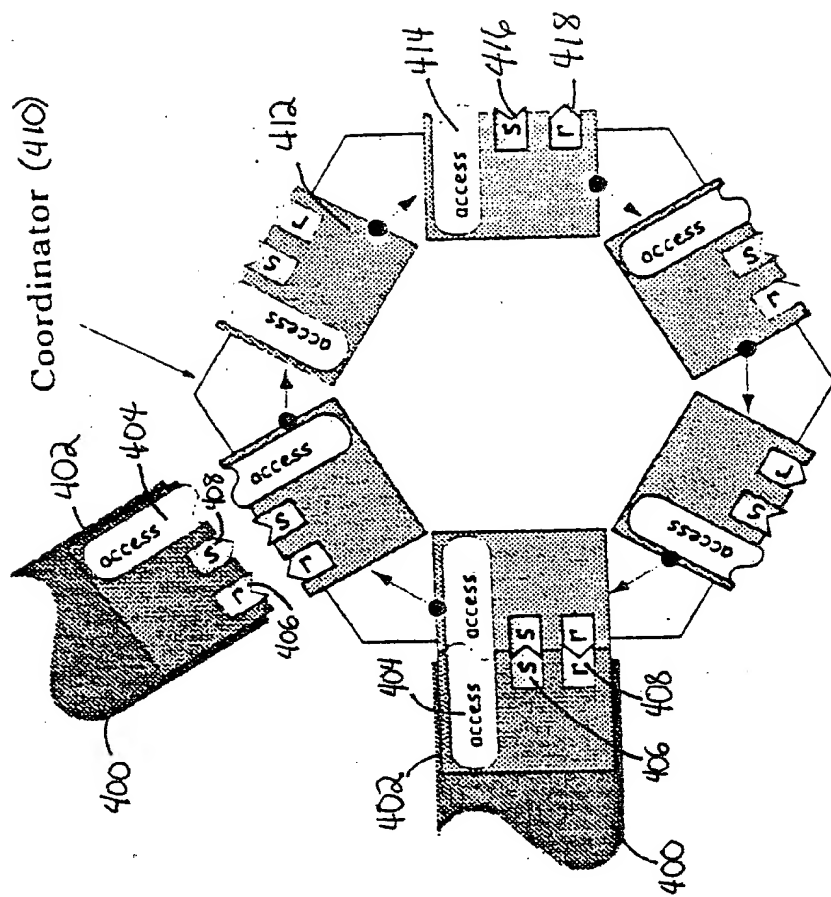


Figure 4B

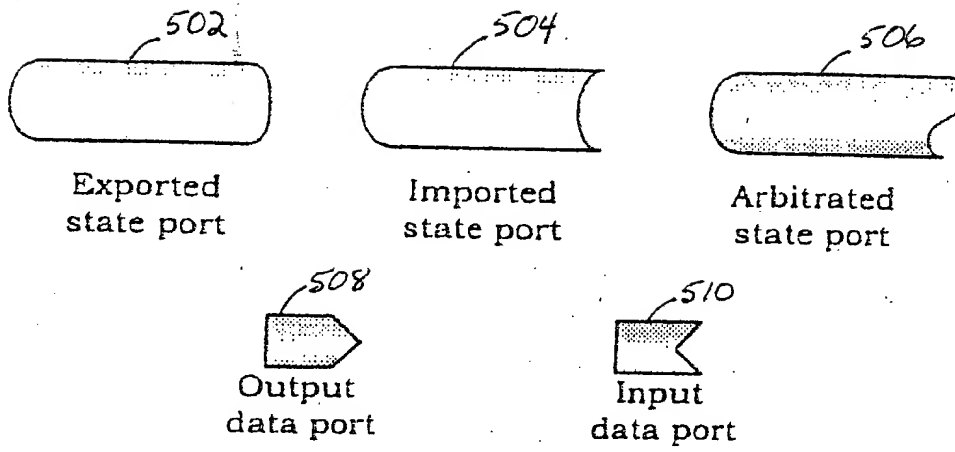


Figure 5

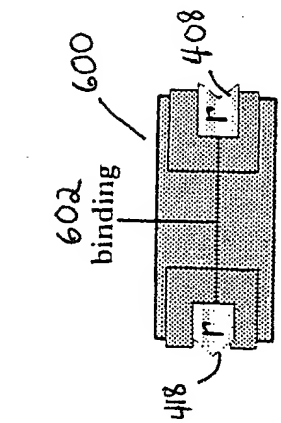


Figure 6A

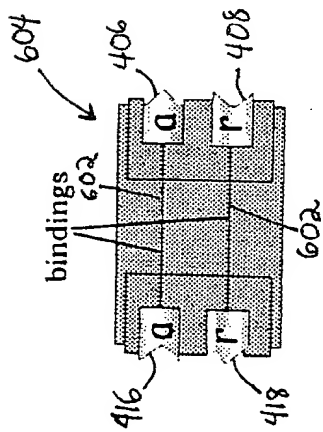


Figure 6B

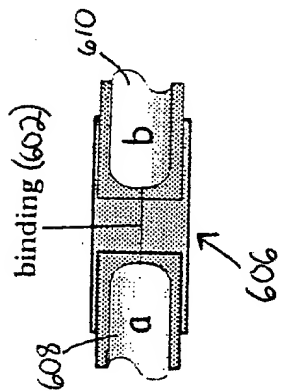


Figure 6C

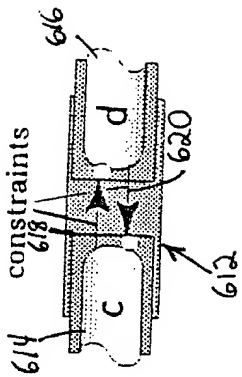


Figure 6D

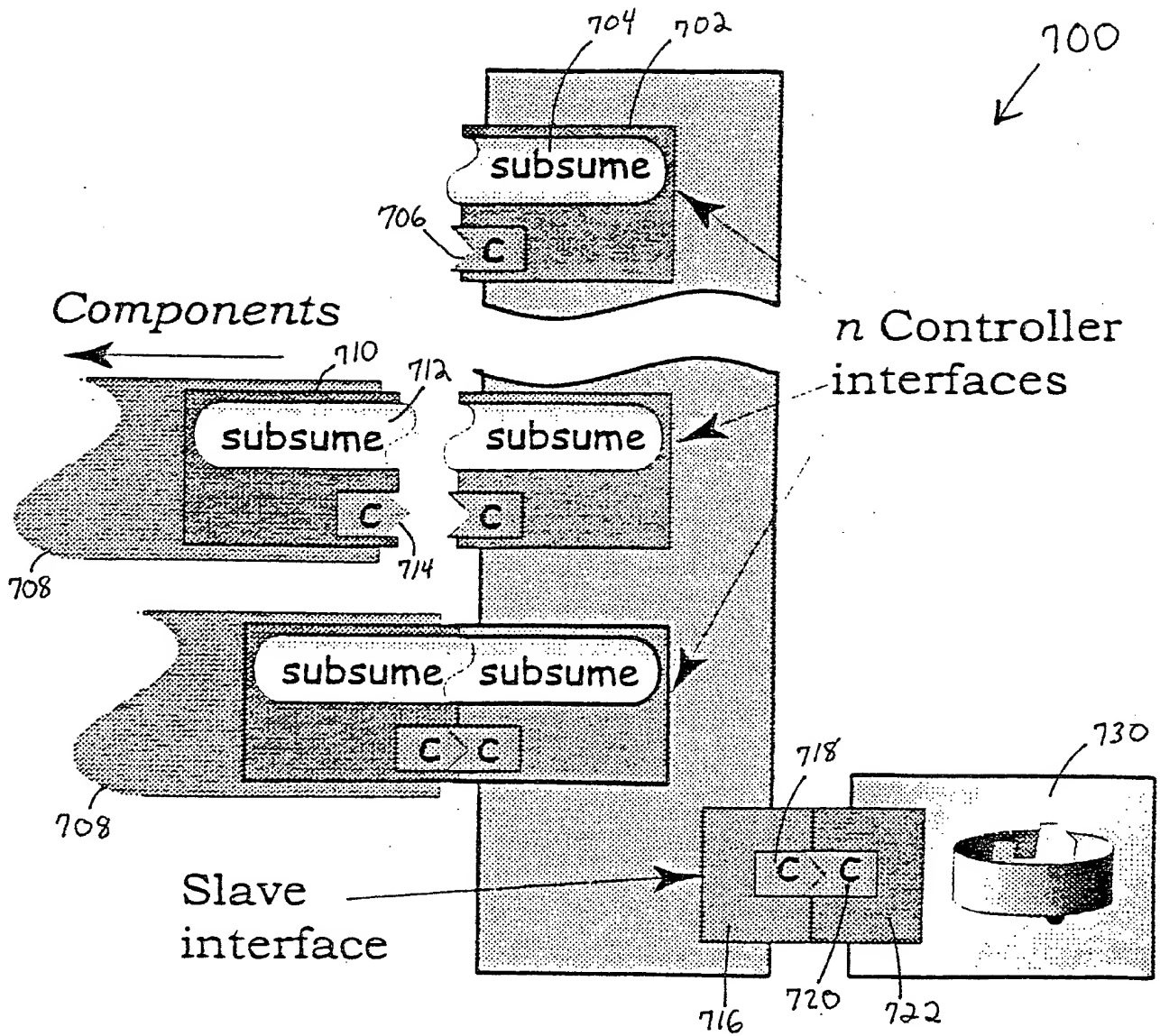


Figure 7

09888061.062401

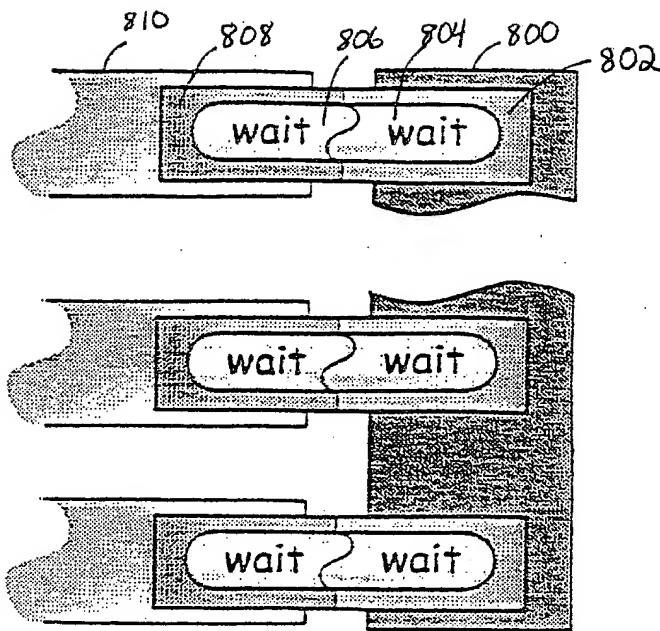


Figure 8



09888061.062101

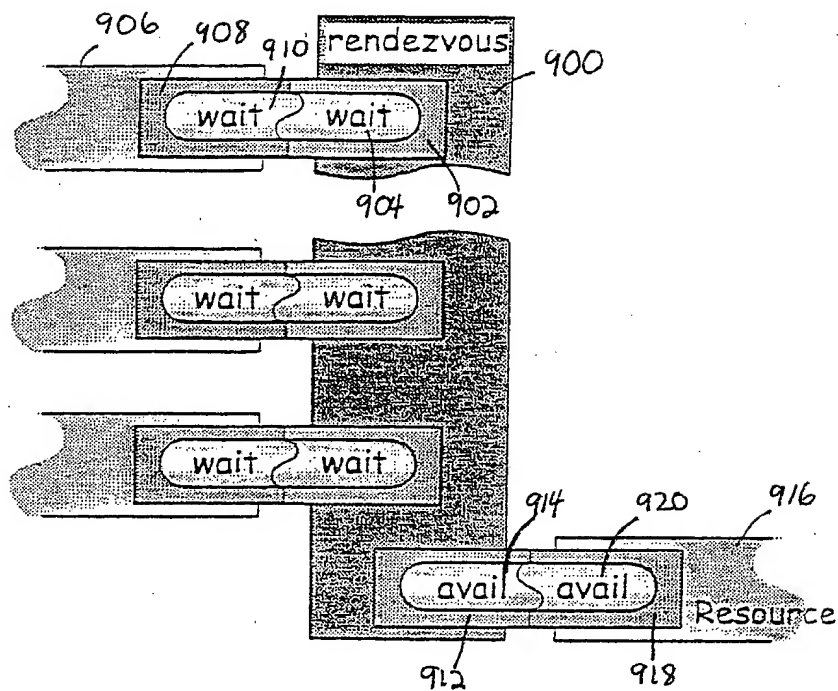


Figure 9

09888061-062101  
TOT290-T988860

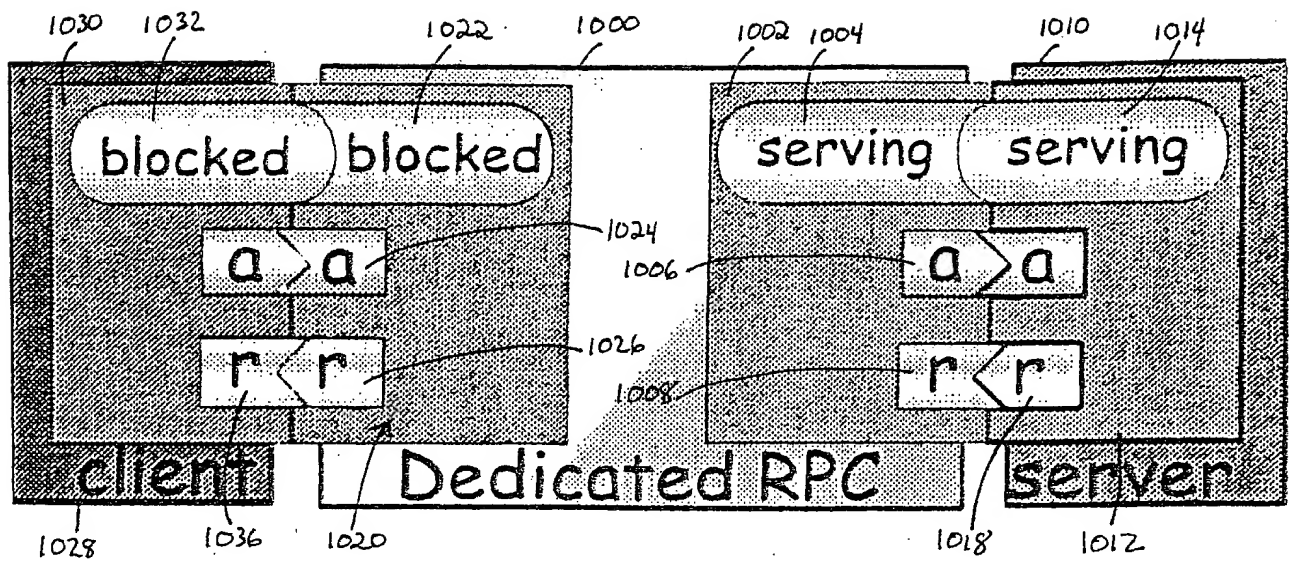


Figure 10

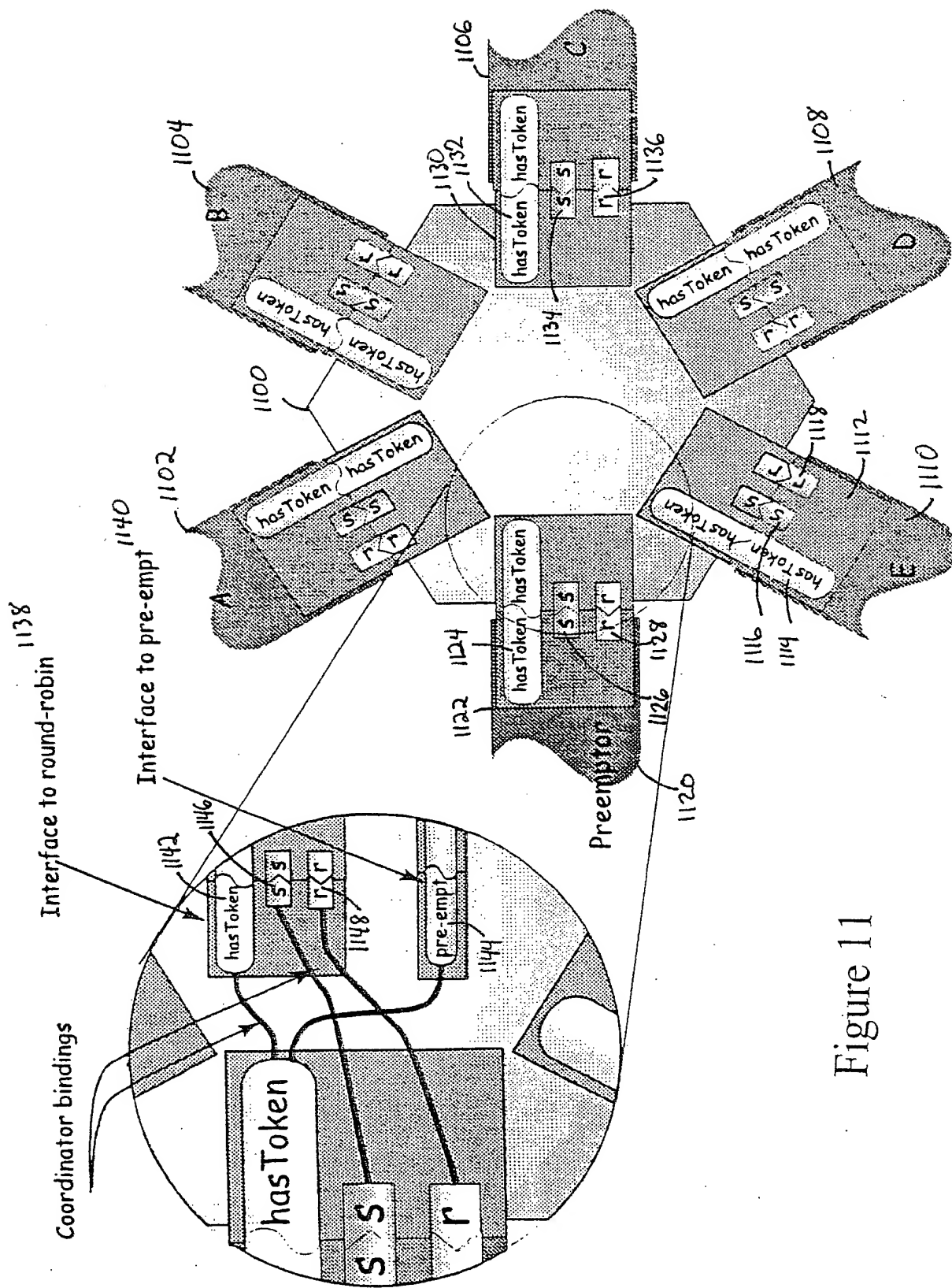


Figure 11

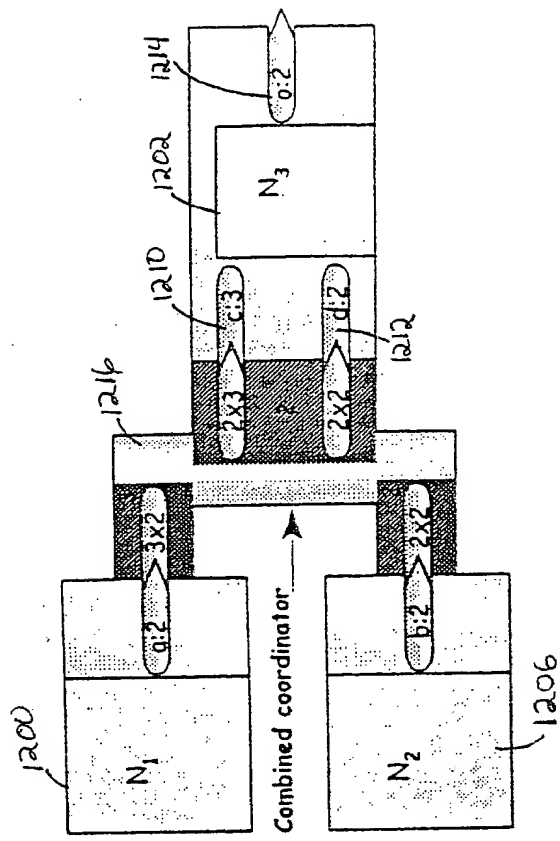


Figure 12B

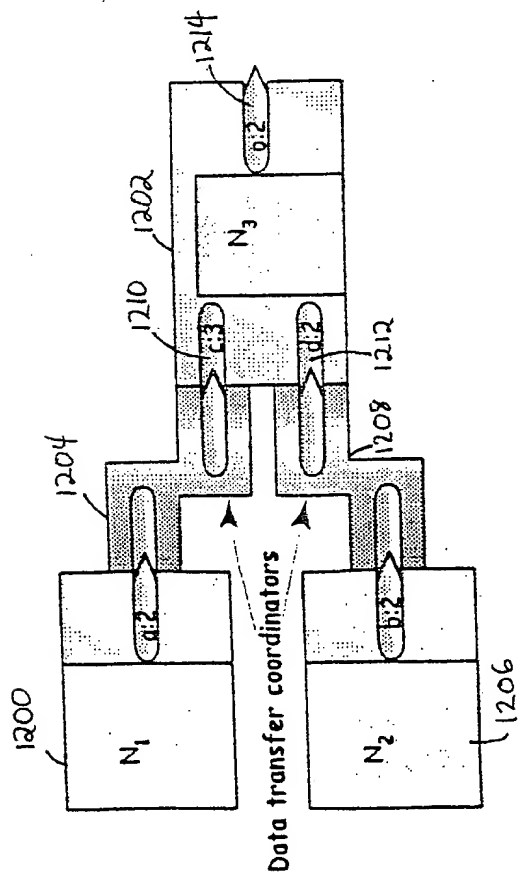


Figure 12A

0988061.062101

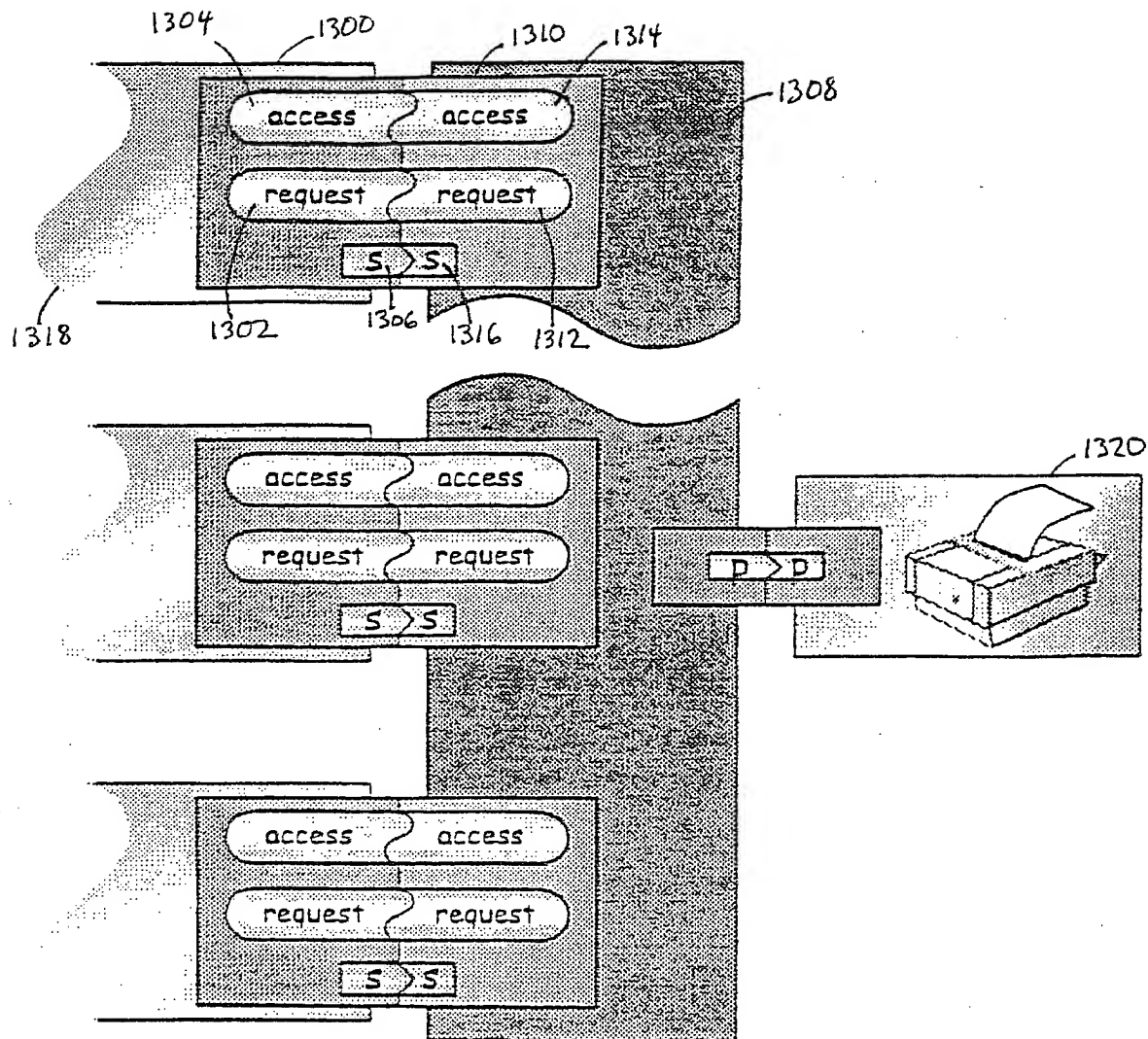


Figure 13

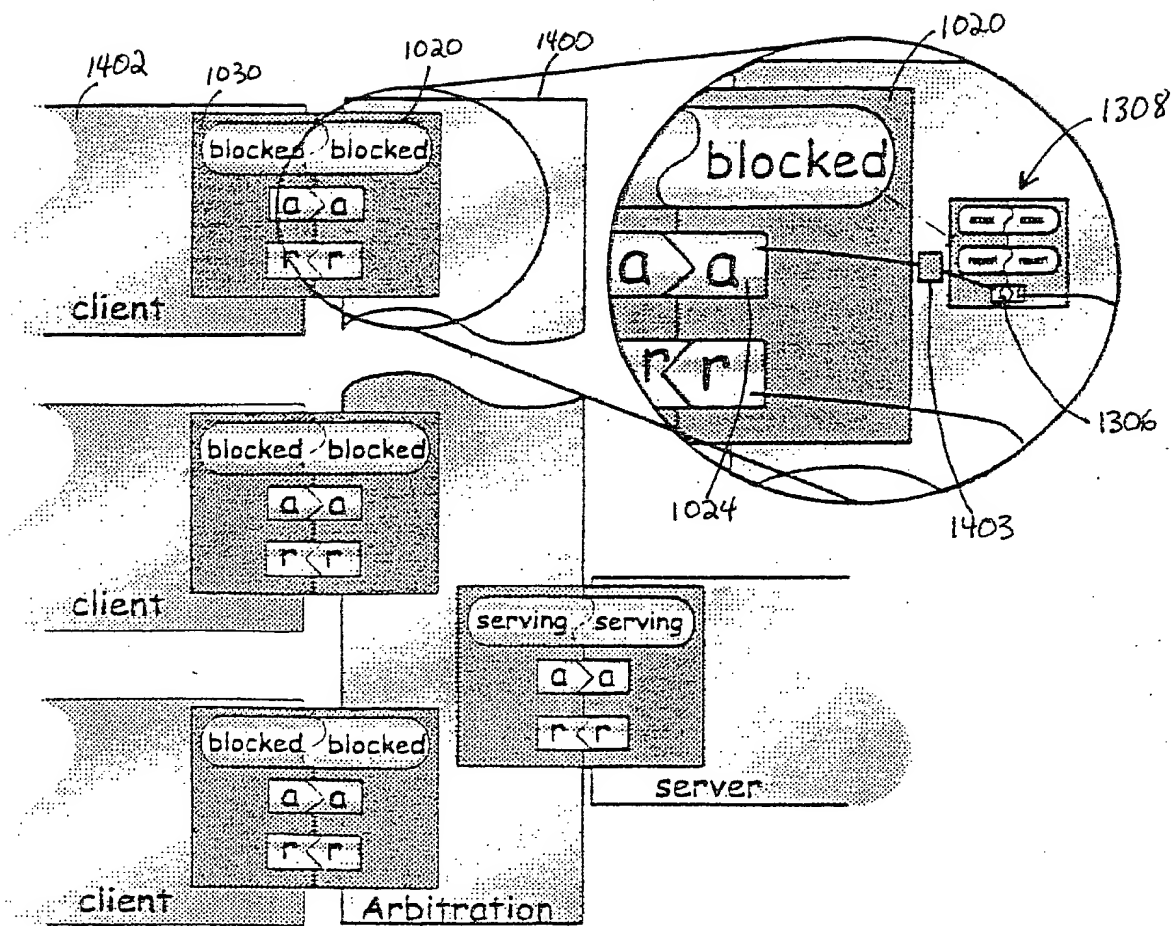


Figure 14

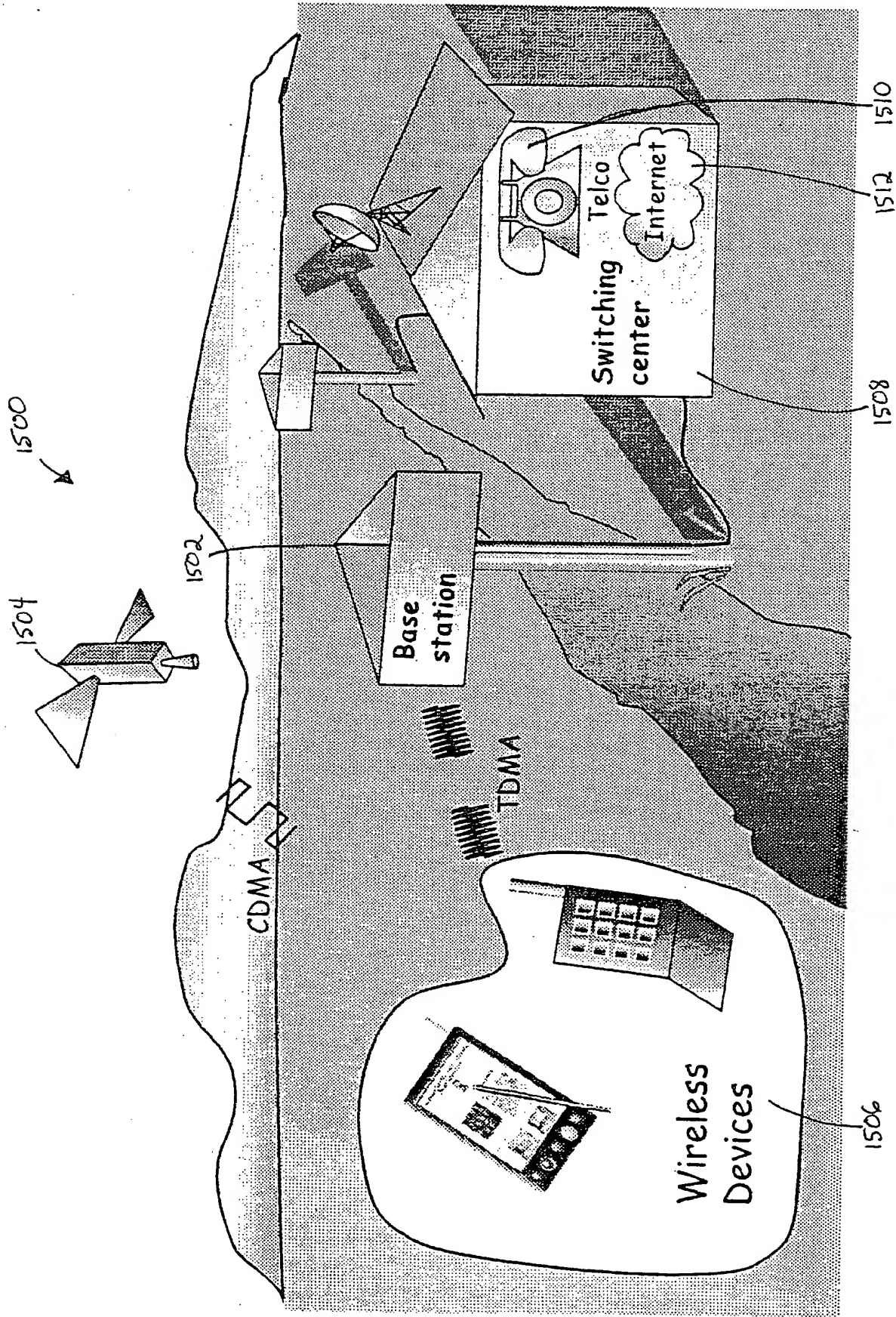


Figure 15

09888061.062101

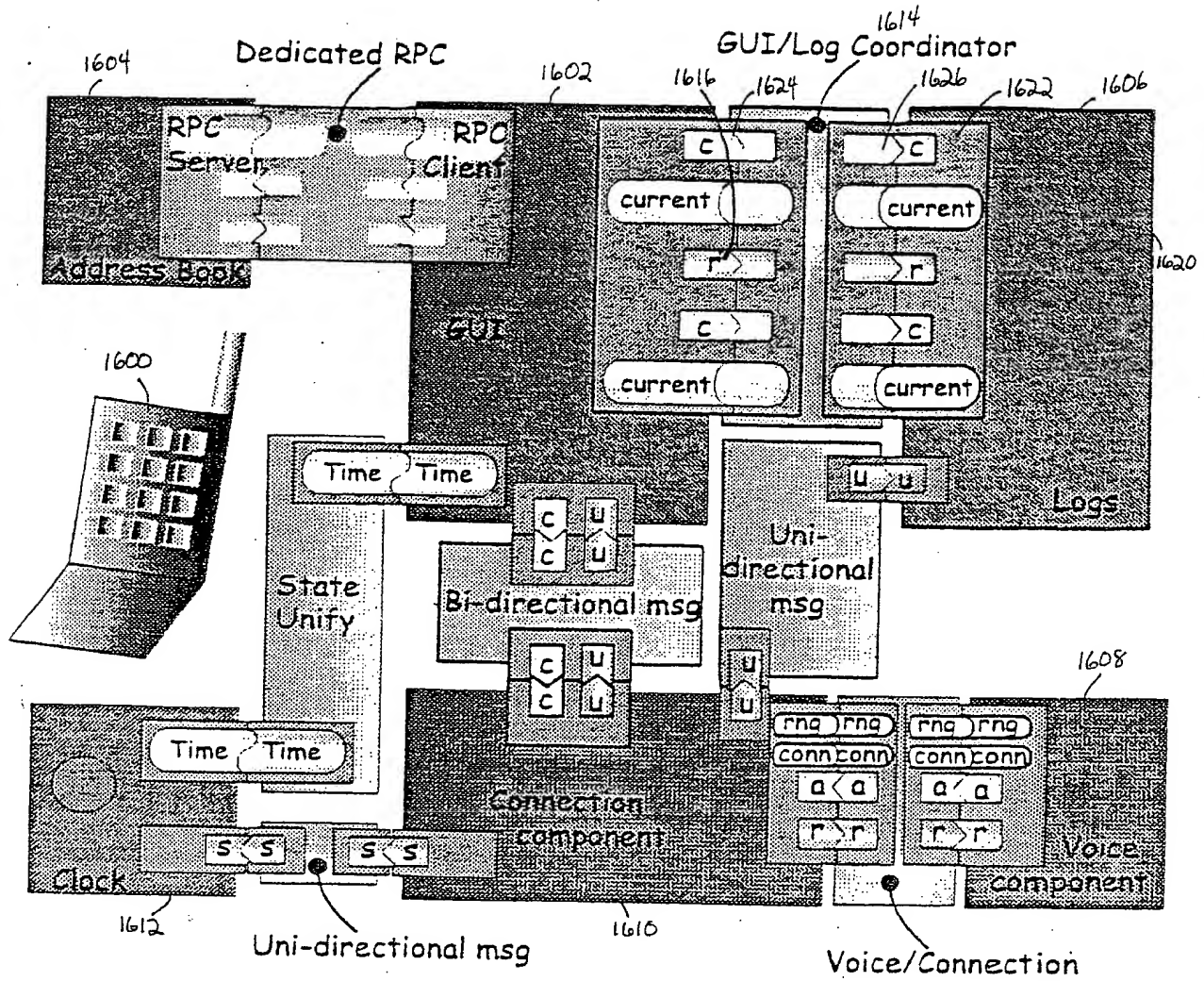


Figure 16



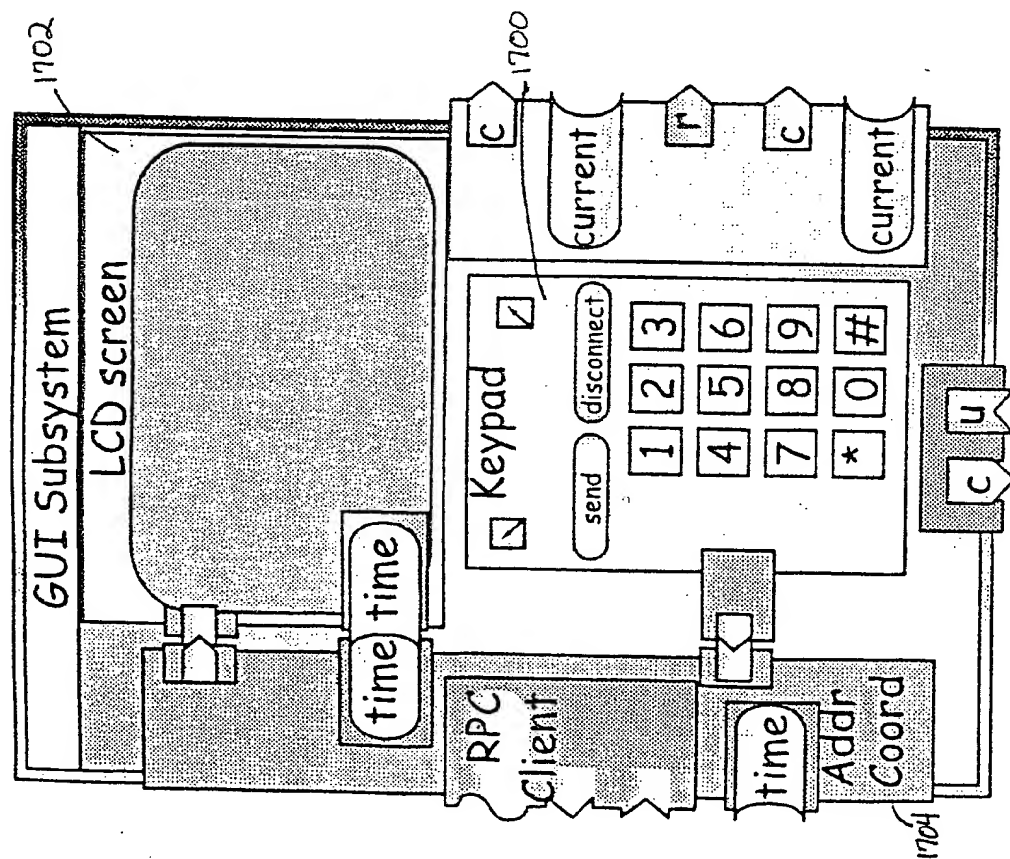


Figure 17A

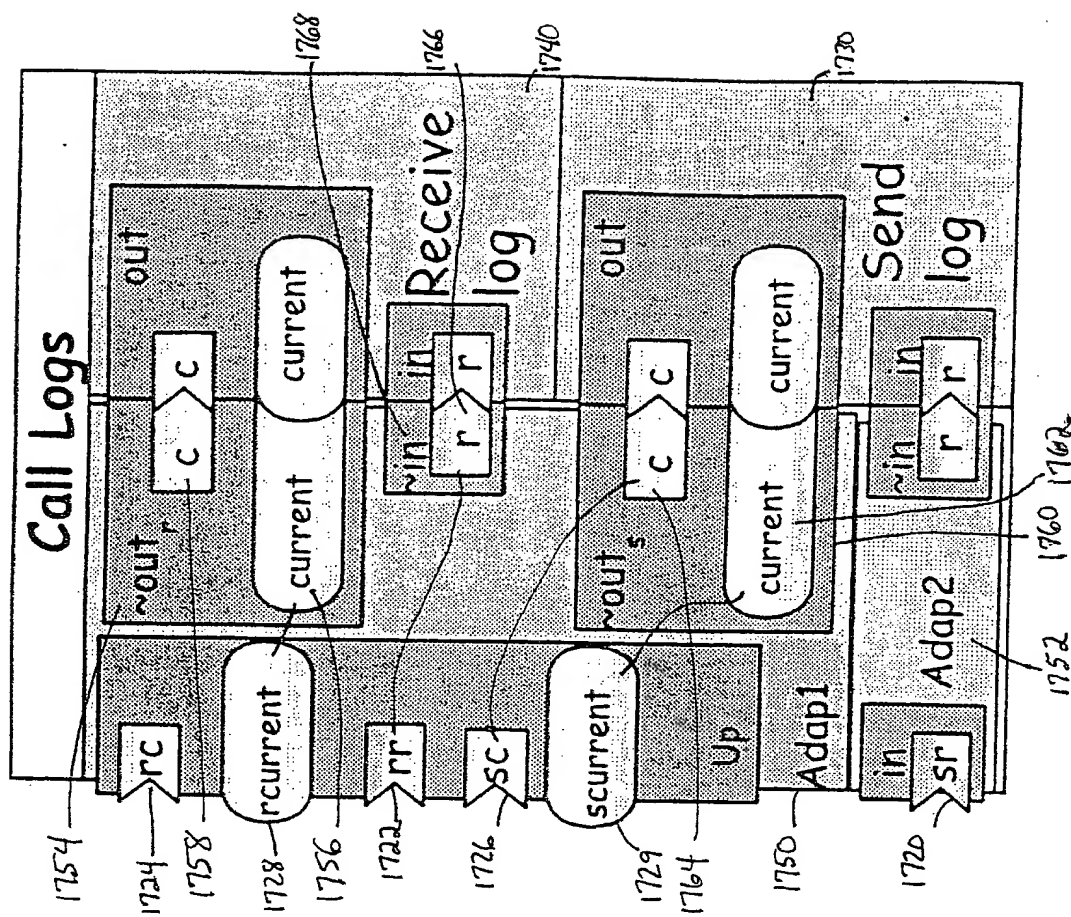


Figure 17B



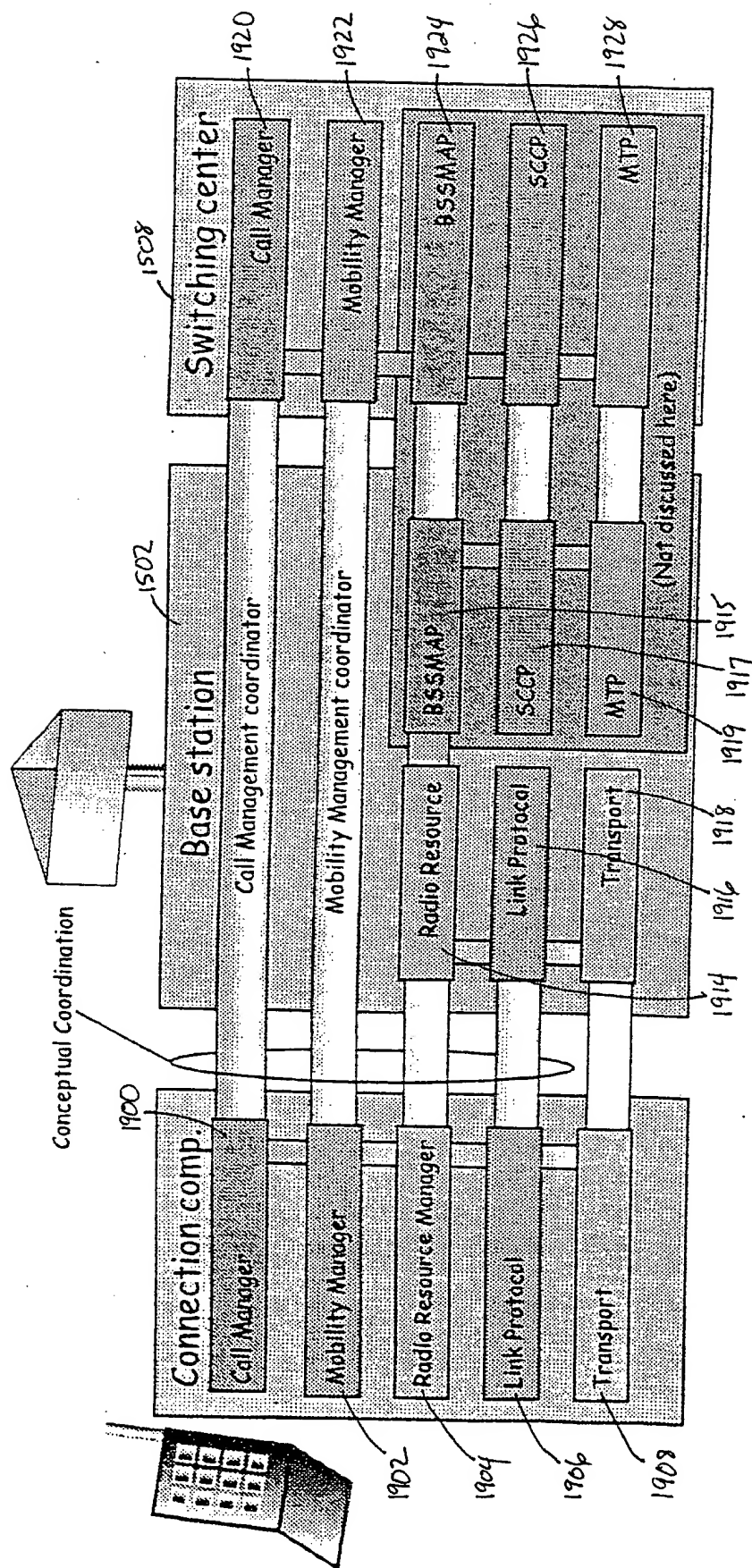


Figure 19

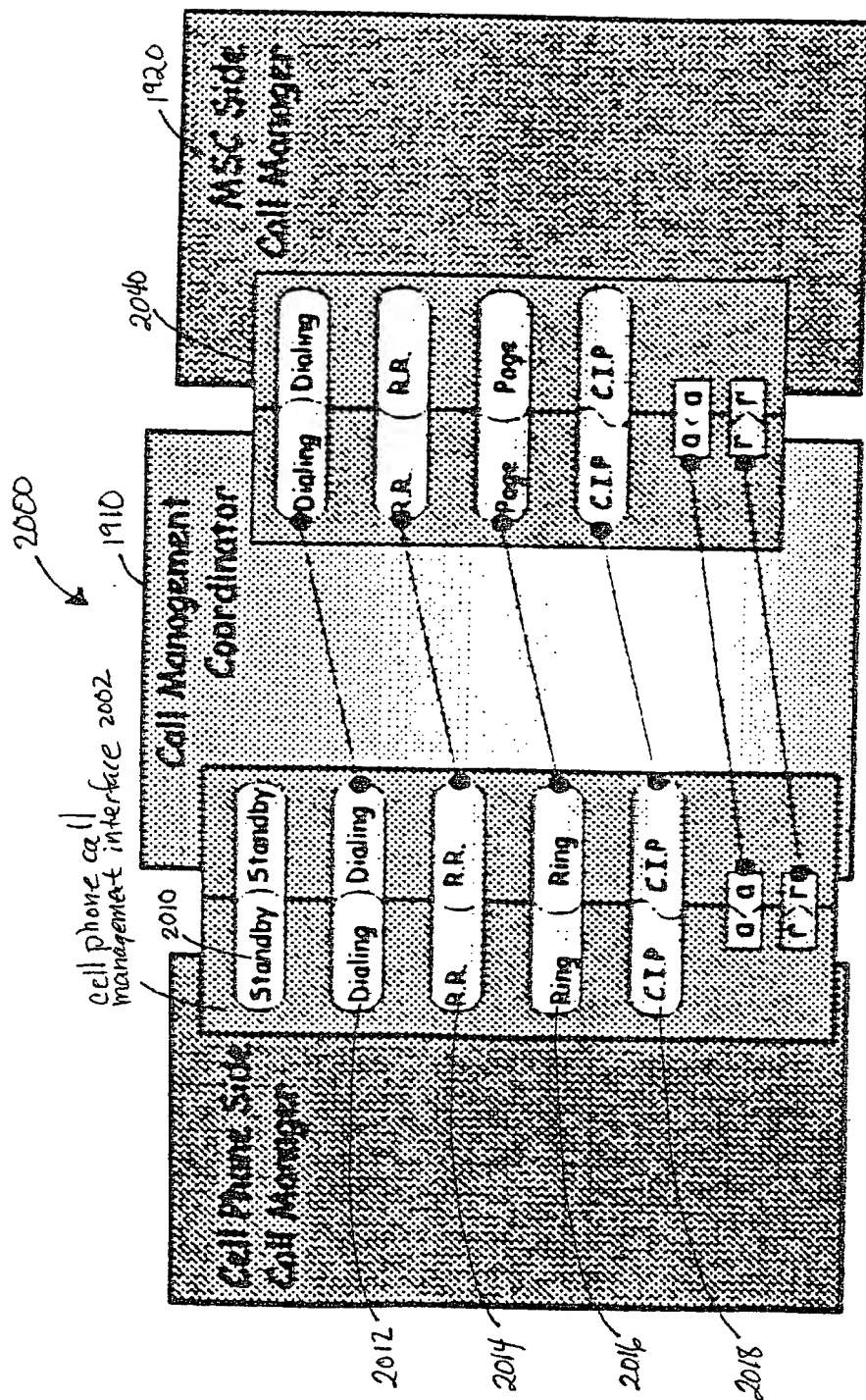


Figure 20



0968051-062101  
101290-19083860

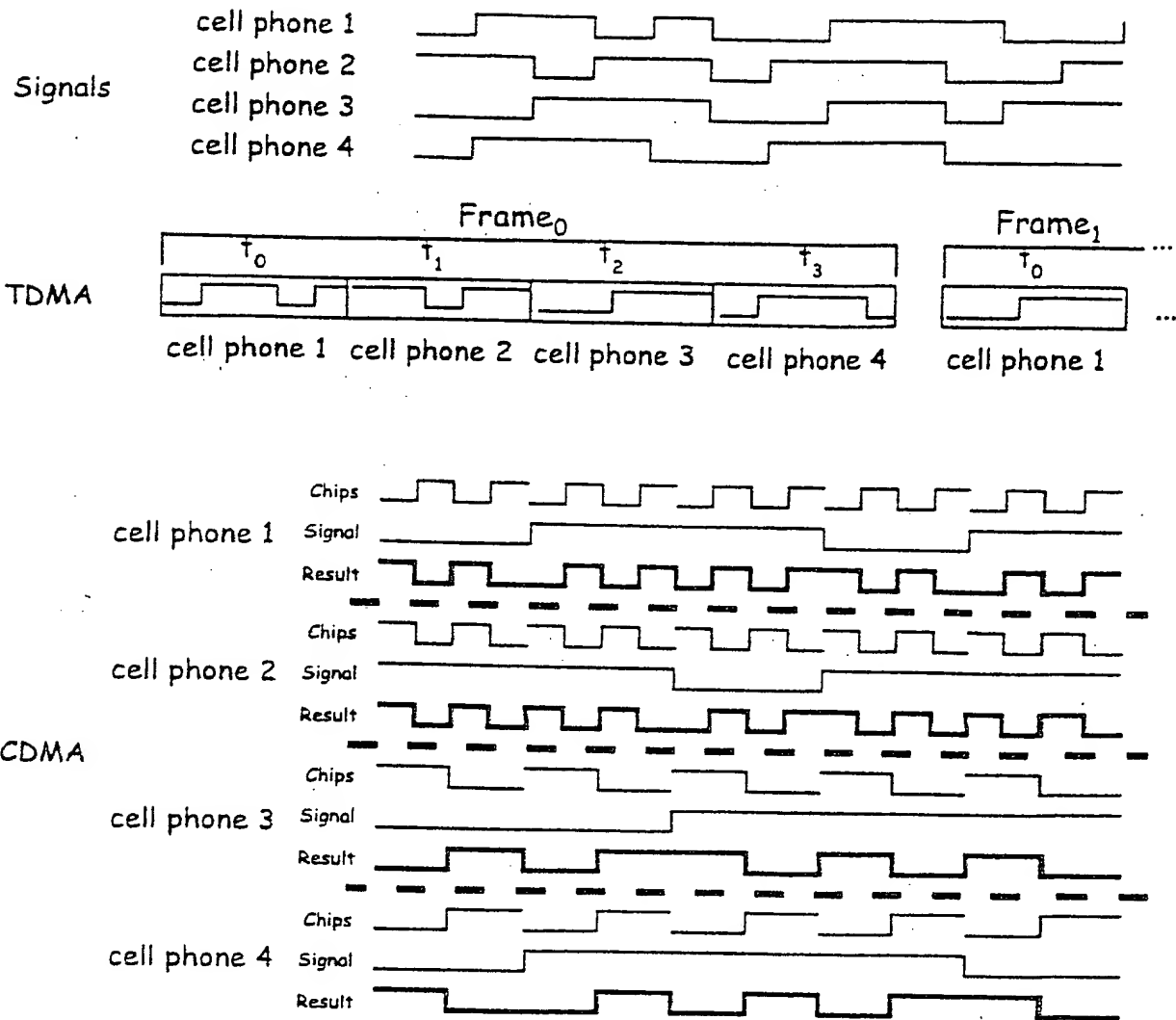


Figure 22

09888061-062101

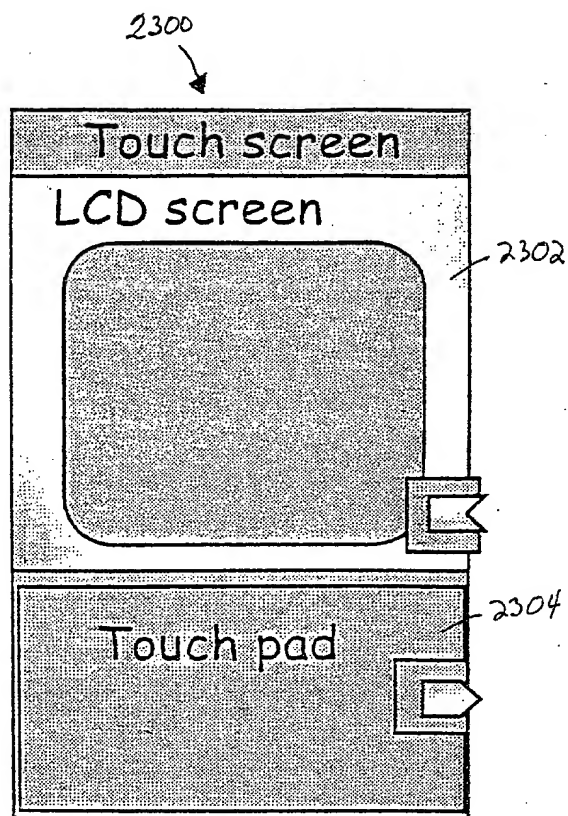


Figure 23A

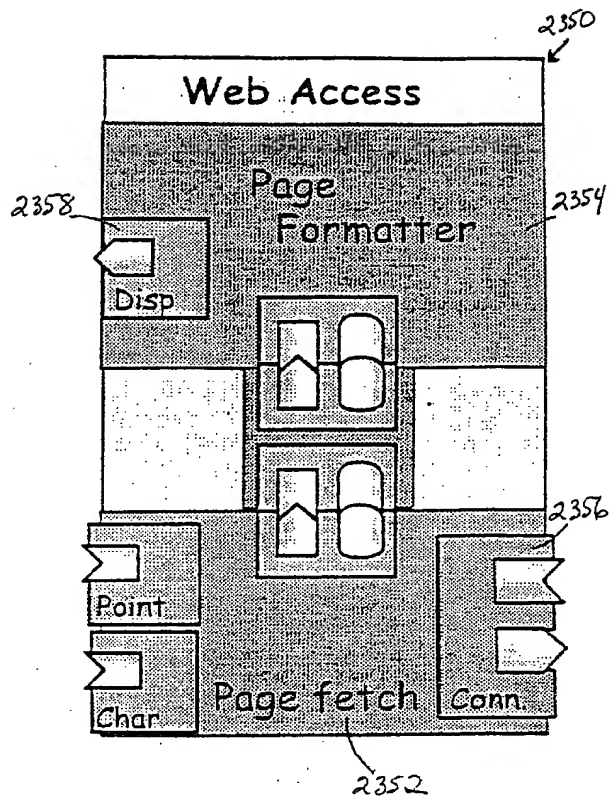


Figure 23B



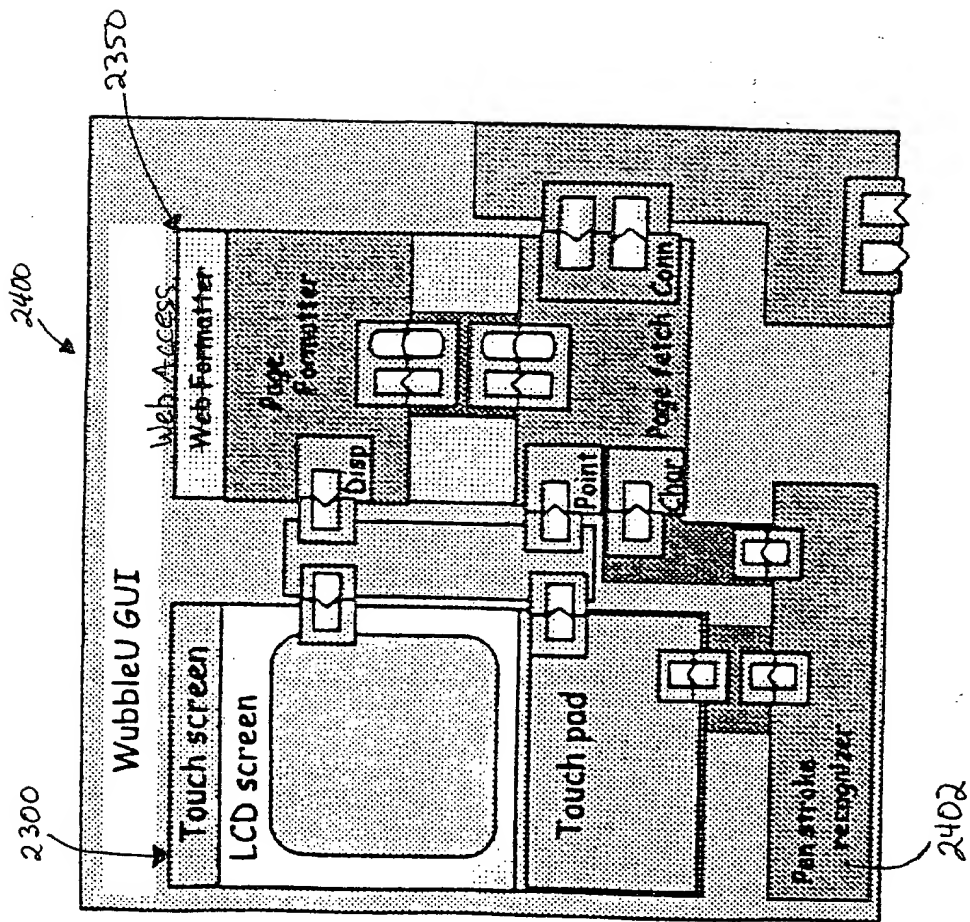


Figure 24A

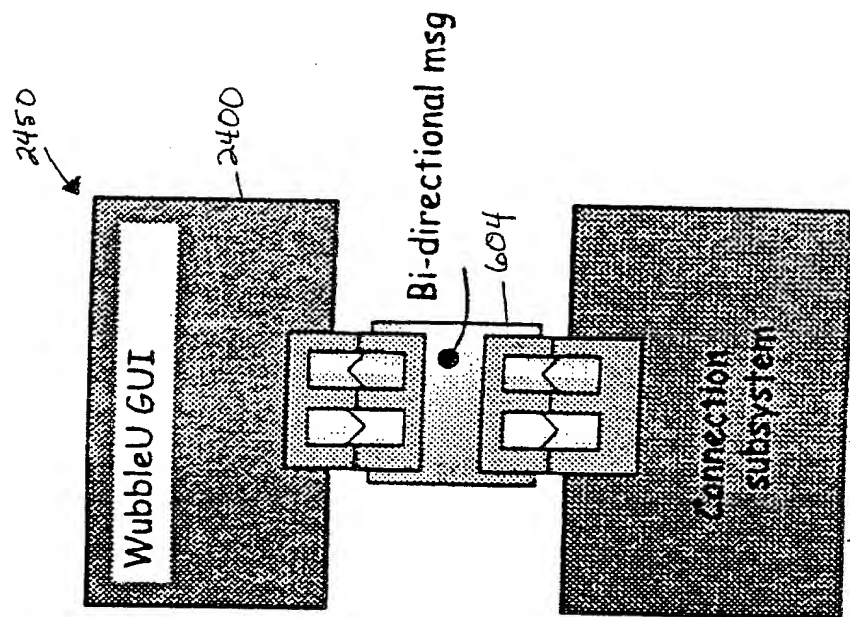


Figure 24B



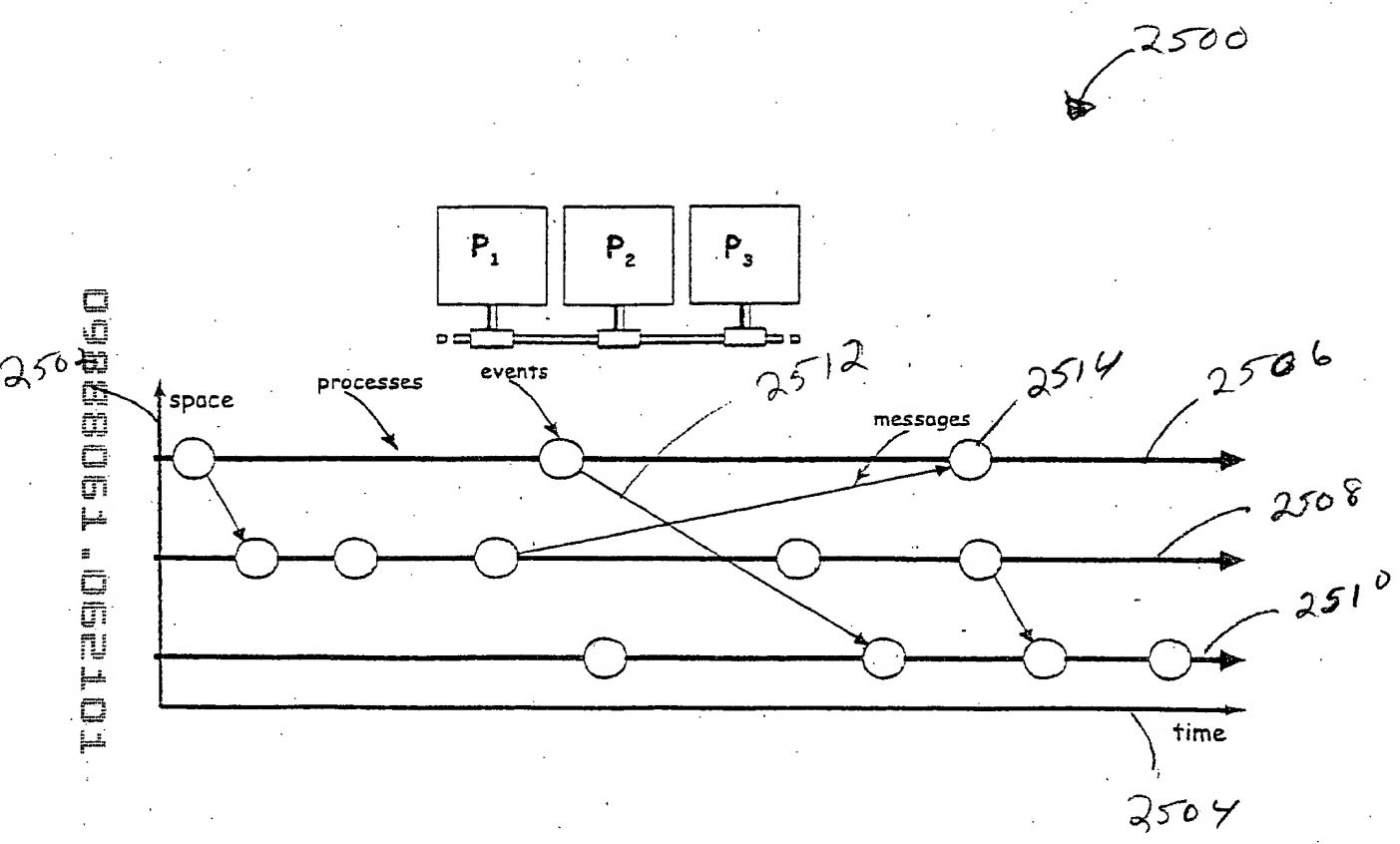


Figure 25

(prior art)

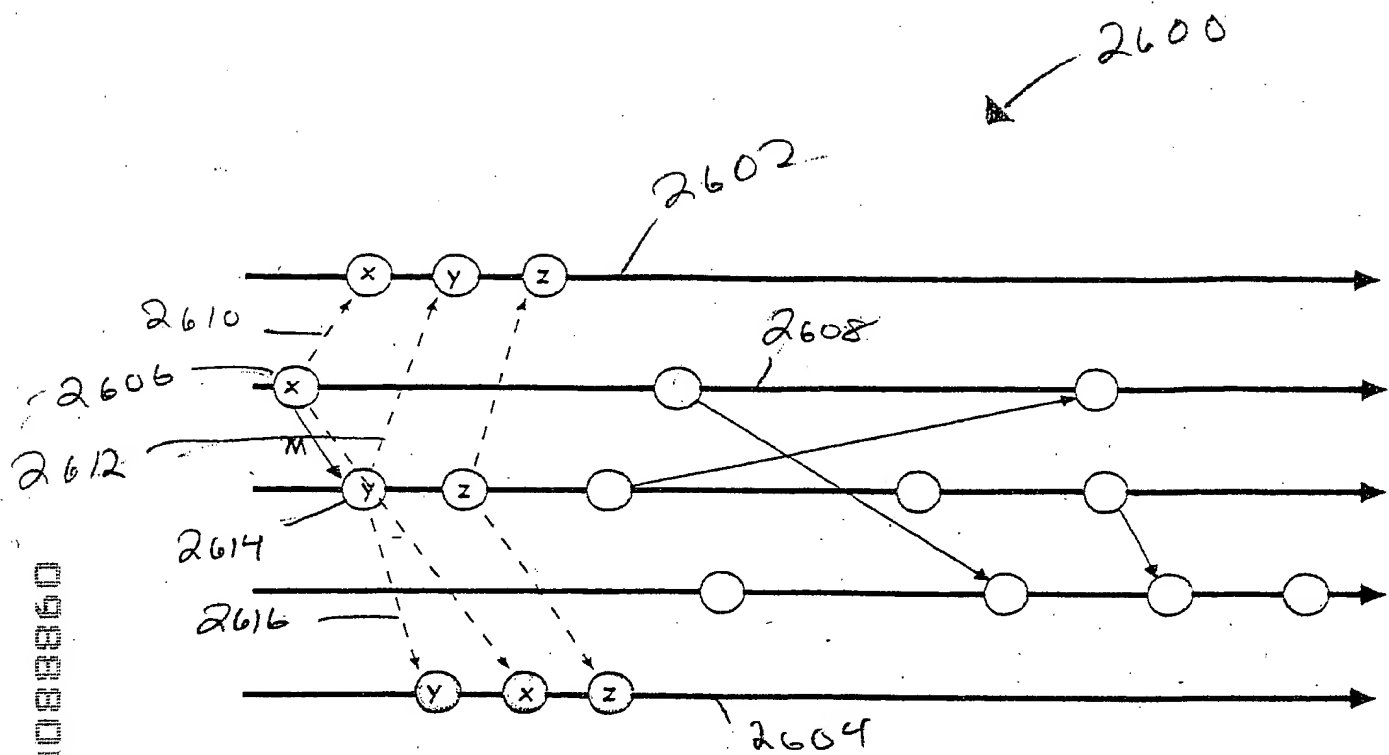


Figure 26

(prior art)

09888061.062101

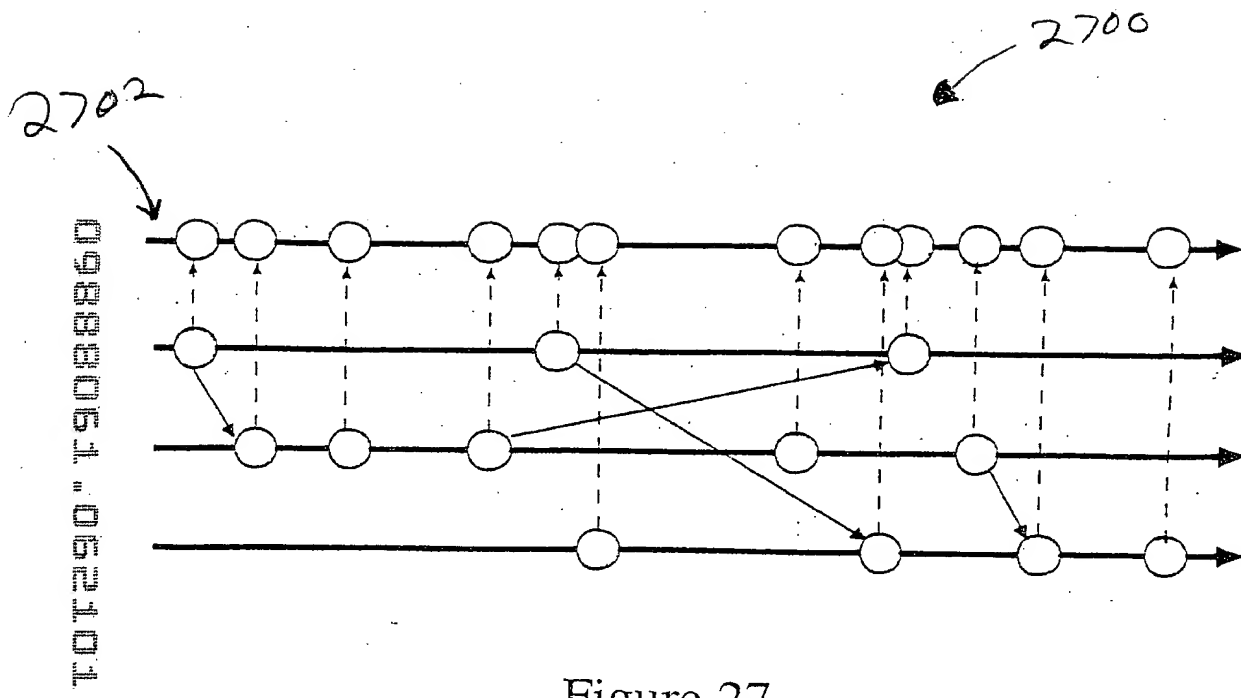


Figure 27

(prior art)

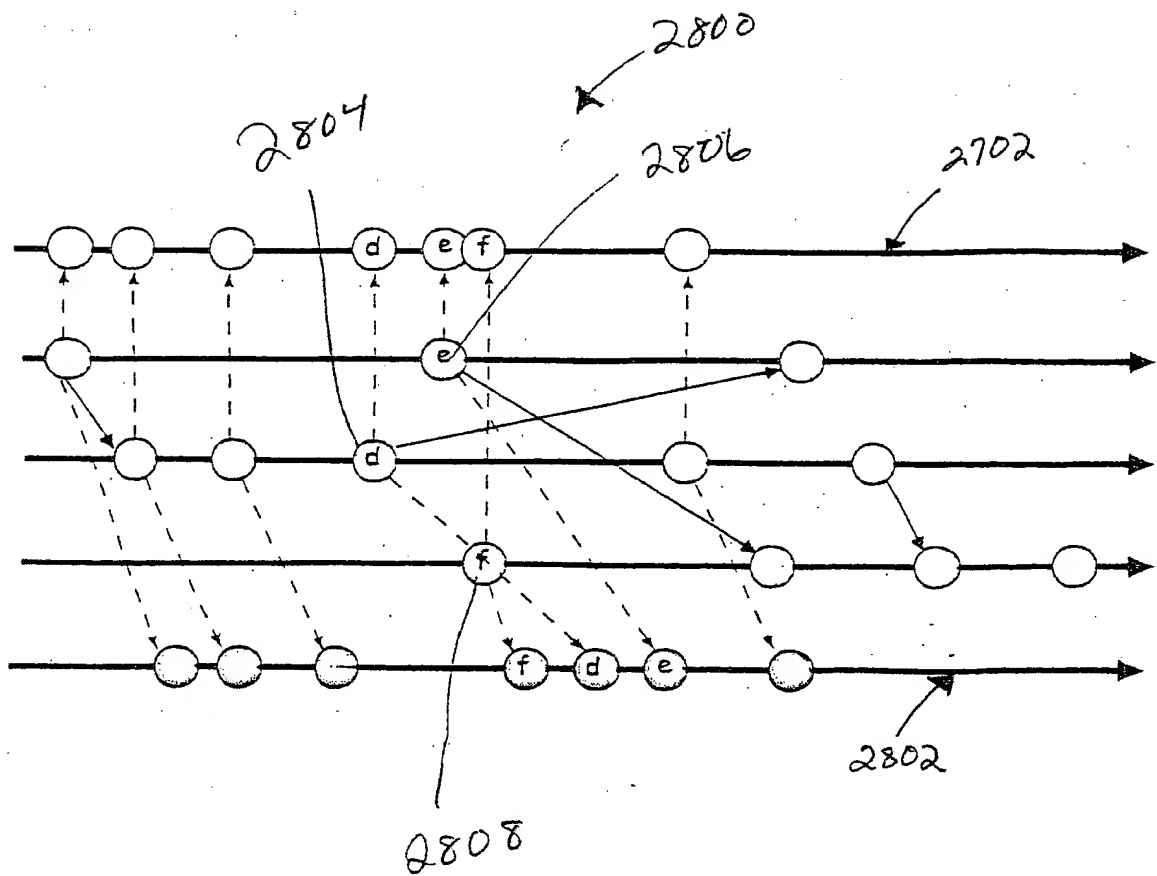
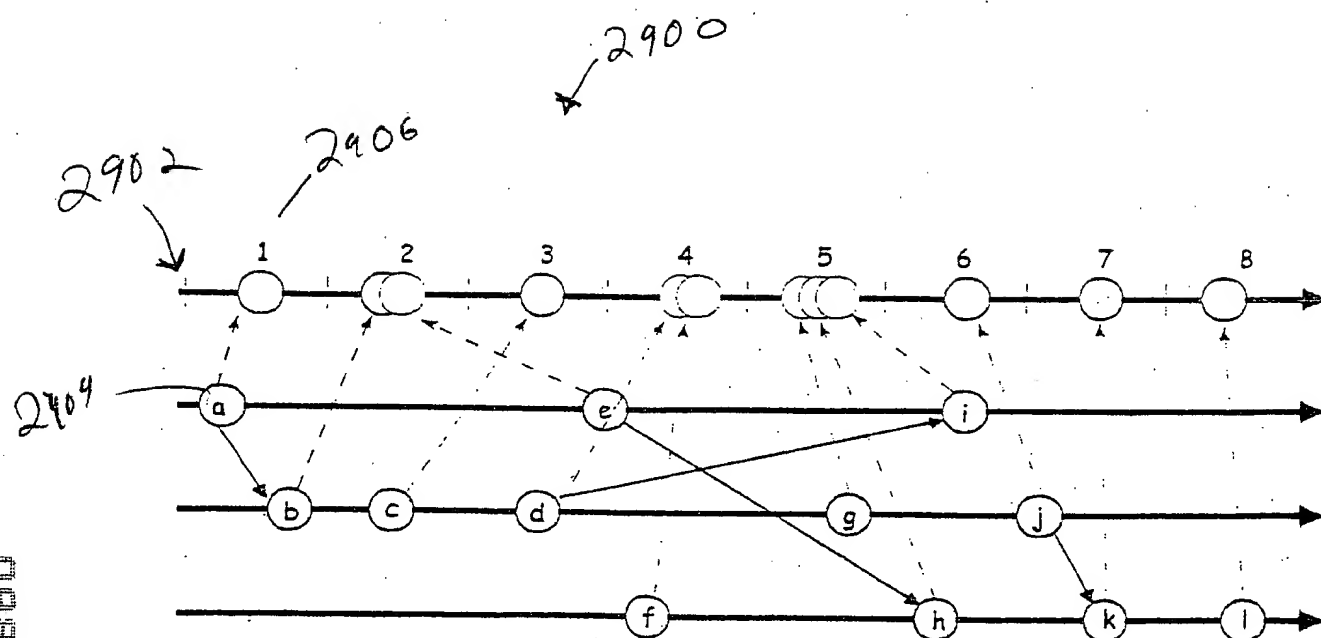


Figure 28

(prior art)



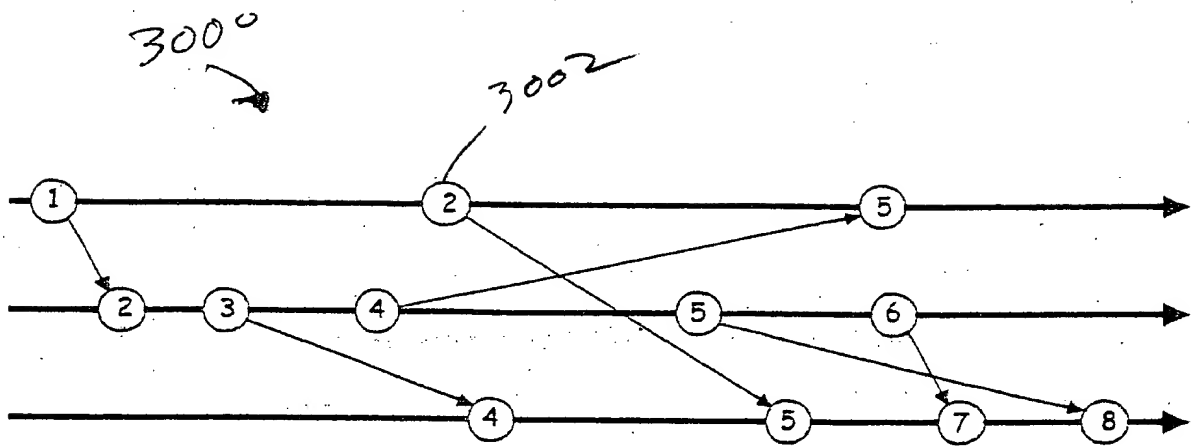


Figure 30

(prior art)

0900001 06101  
T0T250" T9000060

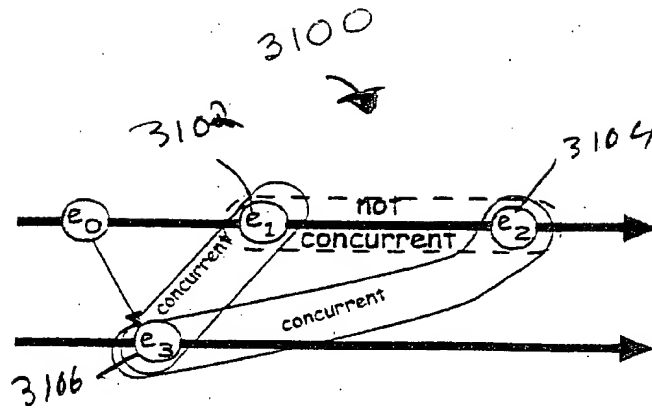


Figure 31

(prior art)

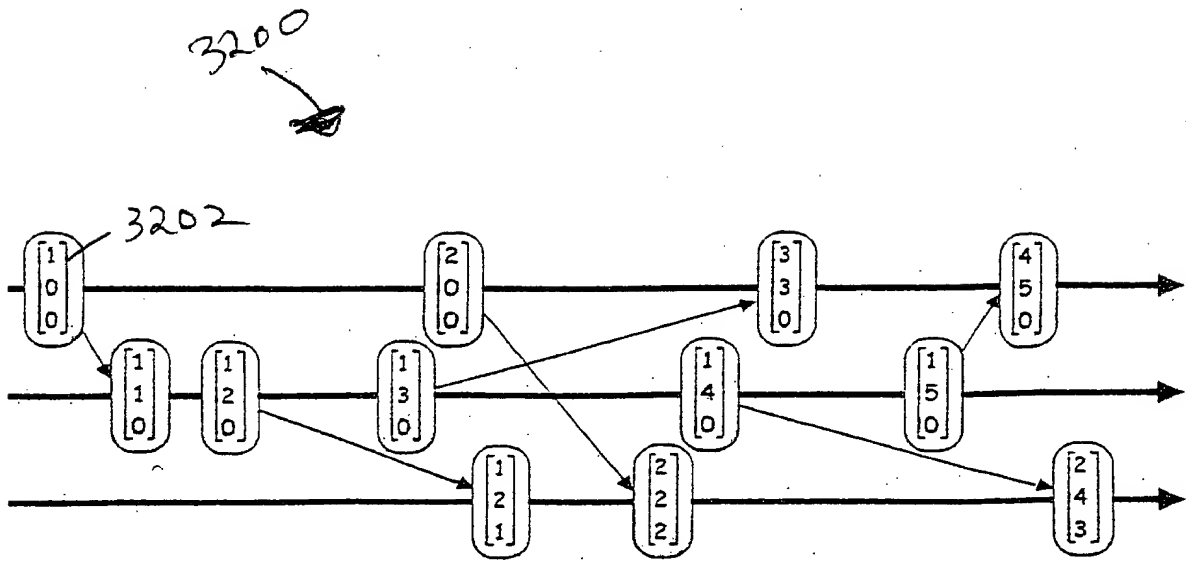


Figure 32

(prior art)



3300

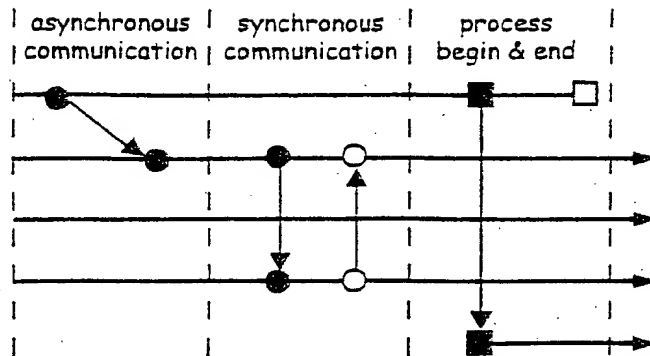


Figure 33

(prior art)

09888061-062101  
FOI290-19088860

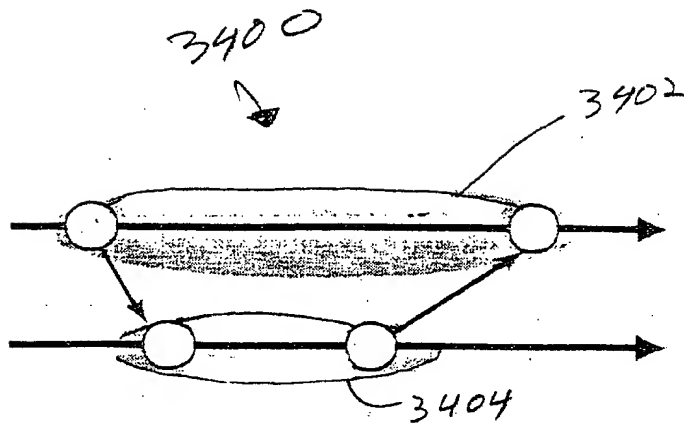


Figure 34

(prior art)

TOT290" T9088860

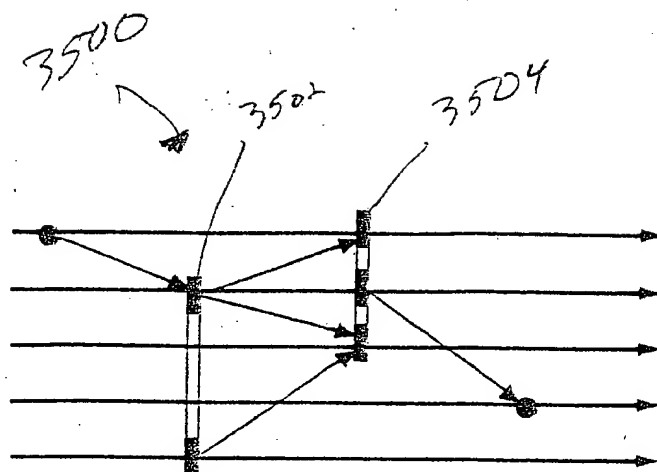


Figure 35

(prior art)

0988061.062101  
TOT290" T90B8860

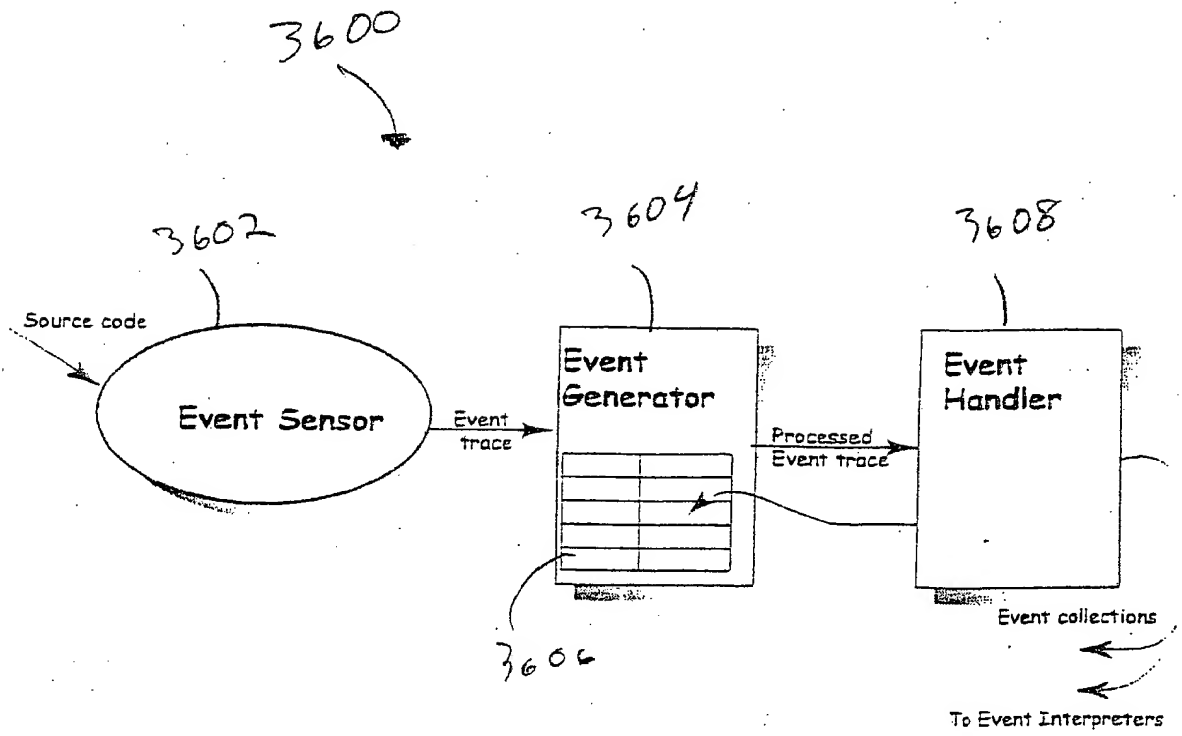


Figure 36

(prior art)

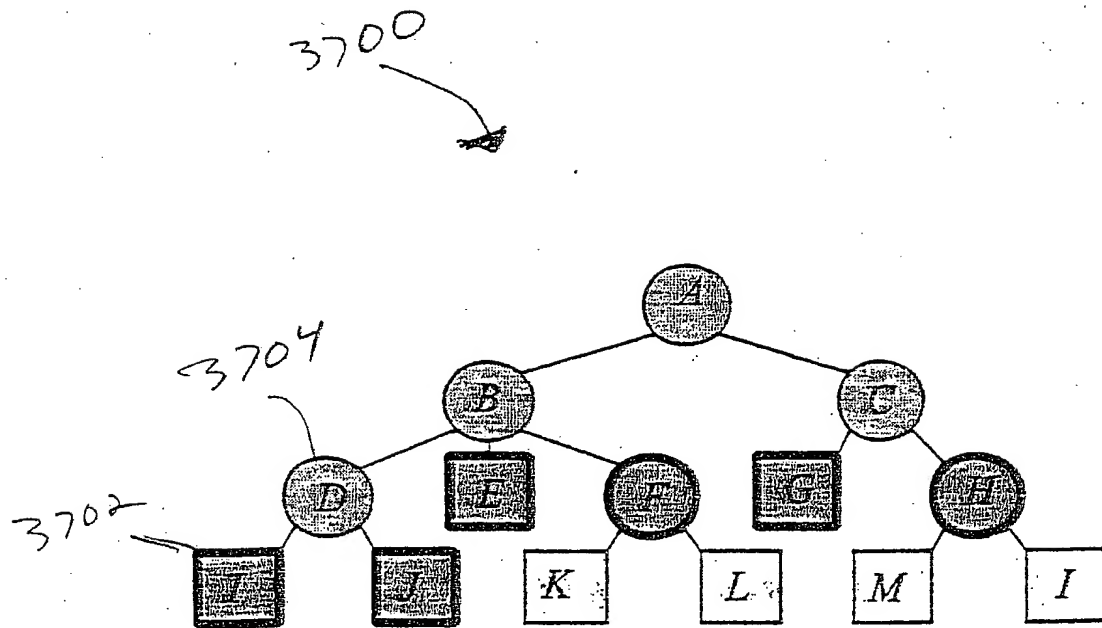
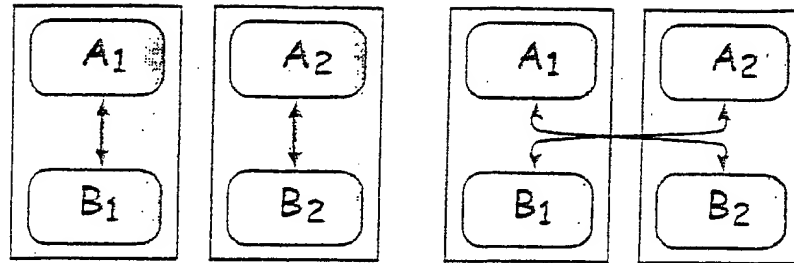


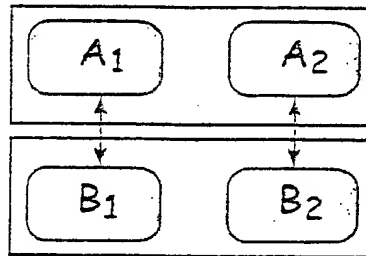
Figure 37

(prior art)



(a) Cohesion(P) = 1.0  
Coupling(P) = 0.5

(b) Cohesion(P) = 0.0  
Coupling(P) = 1.0



(c) Cohesion(P) = 1.0  
Coupling(P) = 0.5

Figure 38

(prior art)

3900

first cut 3902

second cut  
3904

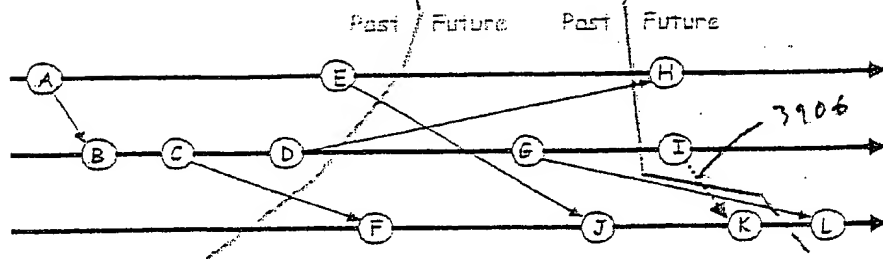


Figure 39

(prior art)

09888061.0162101

09888061.052101

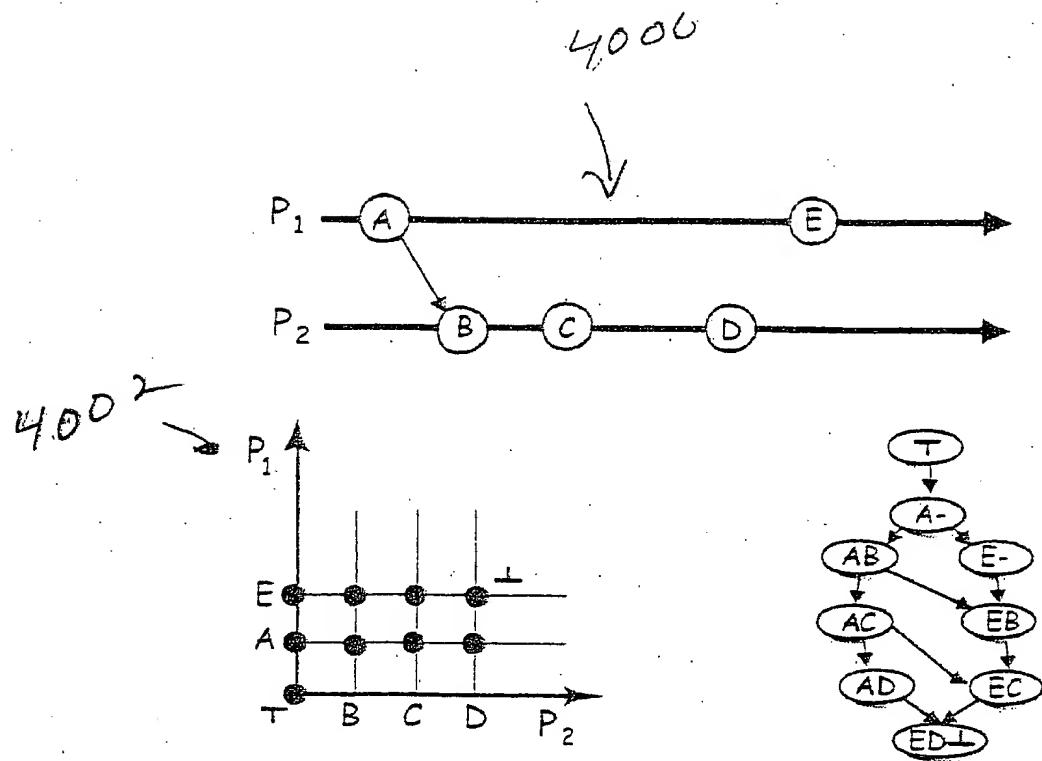


Figure 40

(prior art)



0908061-062101

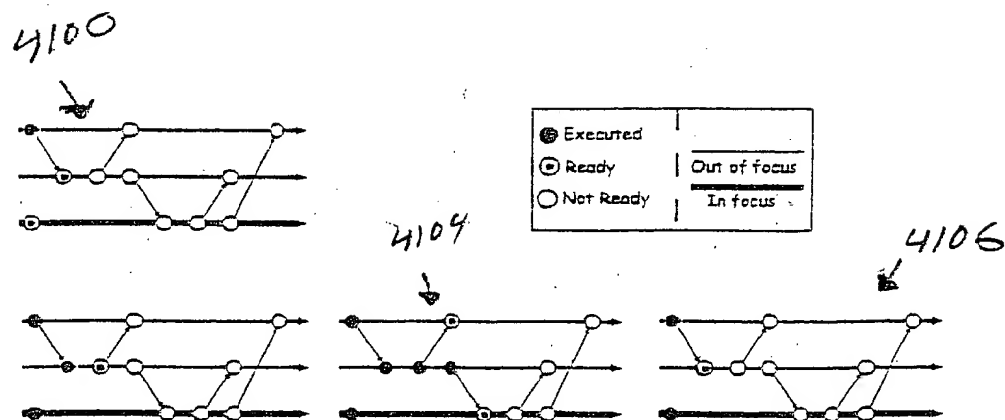


Figure 41  
(prior art)

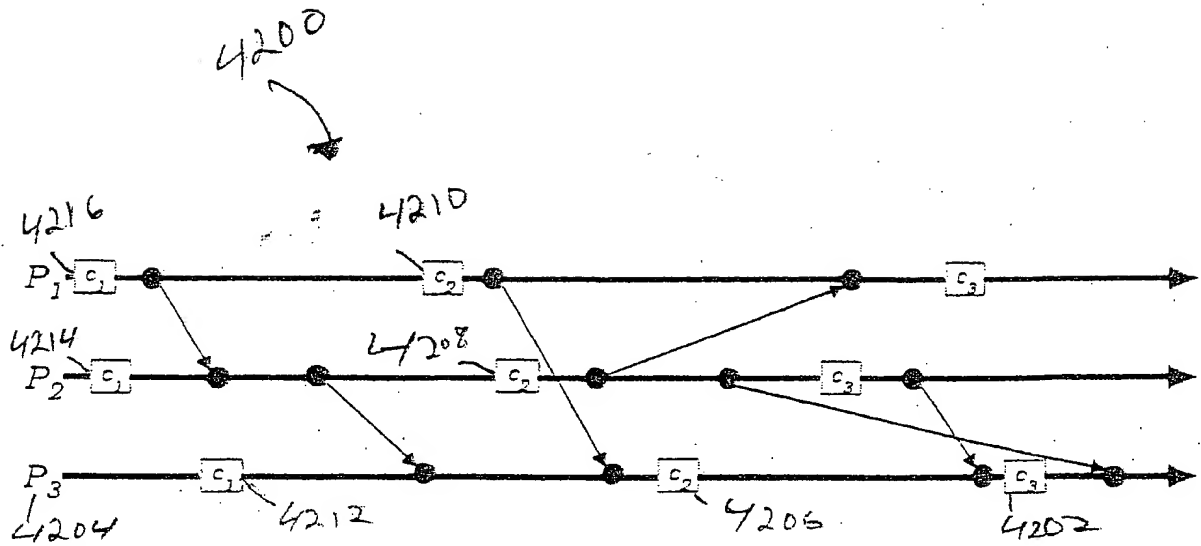


Figure 42

(prior art)

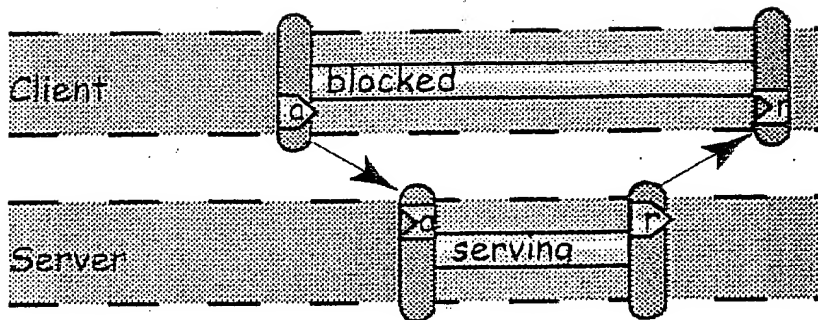
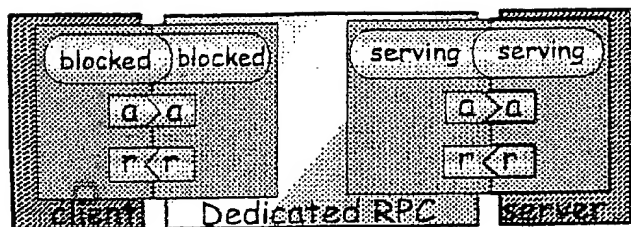


Figure 43

888061-062101

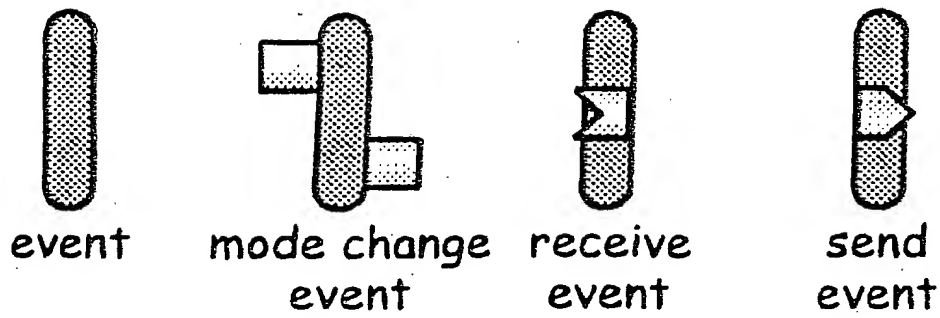


Figure 44

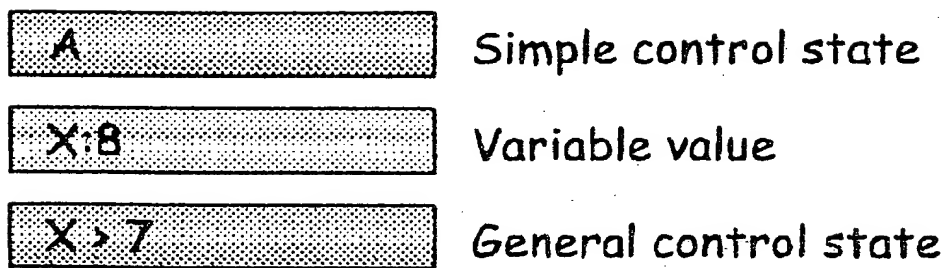


Figure 45

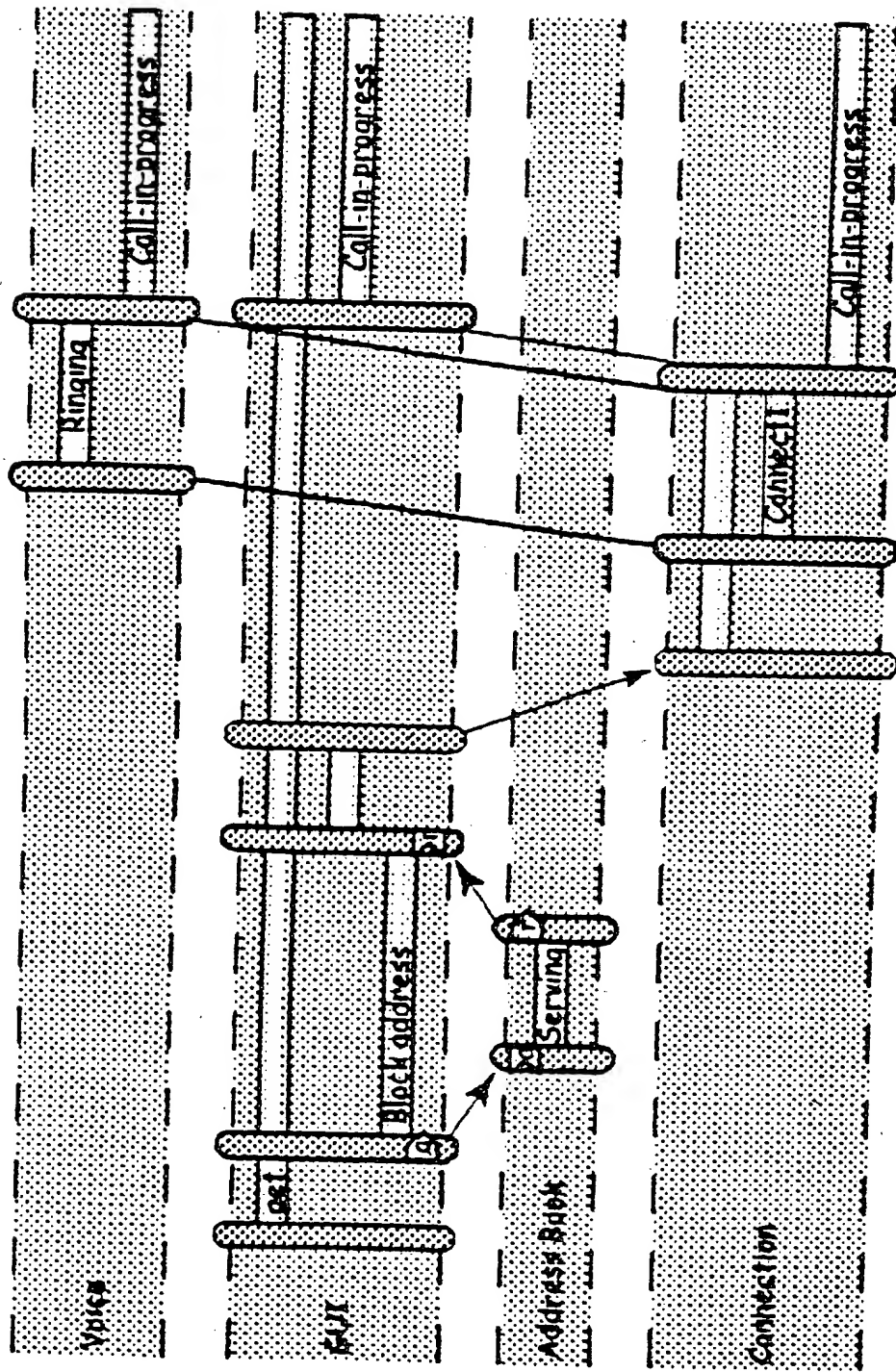


Figure 46

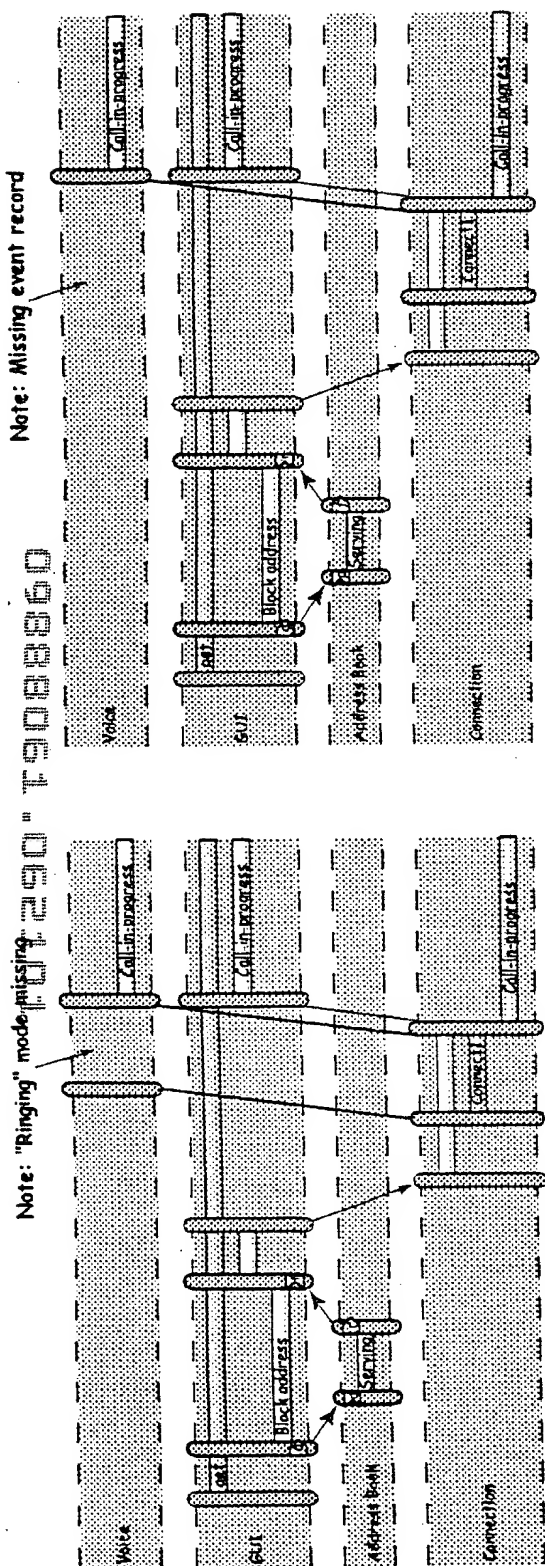


Figure 47A

Figure 47B

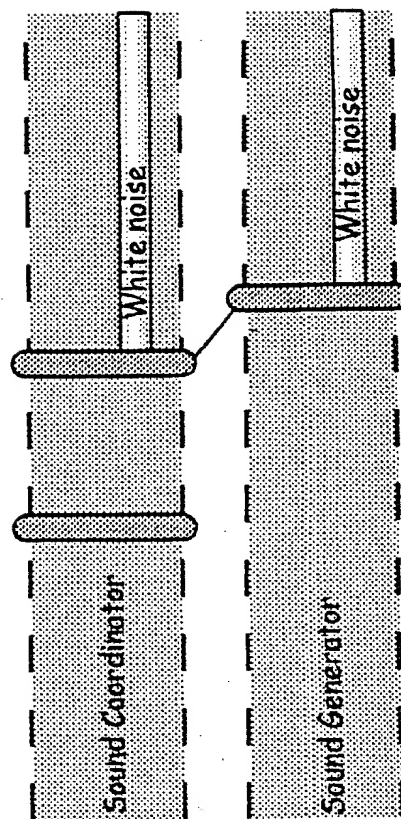


Figure 48

```

if (resourceTaken)
    resourceTaken =
    send(r, 'granted')
)
else (
    send(r, 'fail');
    ...

```

```

...
send(h, 'getResour
while (!new(N));
....
if (!break)
performAction();
send(h, 'release
..

```

```

...
send(h, 'getResour
while (!new(N));
c = get(N); ....
if (!req(c, 'grant
g = getAddress;
...
send(g...)//crash

```

Network Interface

X

Y

Figure 49





The diagram illustrates a distributed system architecture. On the left, a circular component represents the **Coordinator**. It contains several internal modules: **Coordinator bindings** (top left), **Interface to round-robin** (top right), **Interface to pre-empt** (middle right), and **Preemptor** (bottom left). The **Coordinator bindings** module contains a **hasToken** label and two **S** labels. The **Interface to round-robin** module contains a **hasToken** label and two **R** labels. The **Interface to pre-empt** module contains a **hasToken** label and two **R** labels. The **Preemptor** module contains a **hasToken** label and two **R** labels. On the right, a star-shaped component represents the **Nodes**. It consists of a central hub and six spokes, each representing a node. Each node contains a **hasToken** label and two **R** labels. Arrows indicate the flow of data and control between the coordinator and the nodes.

**Figure 51A**

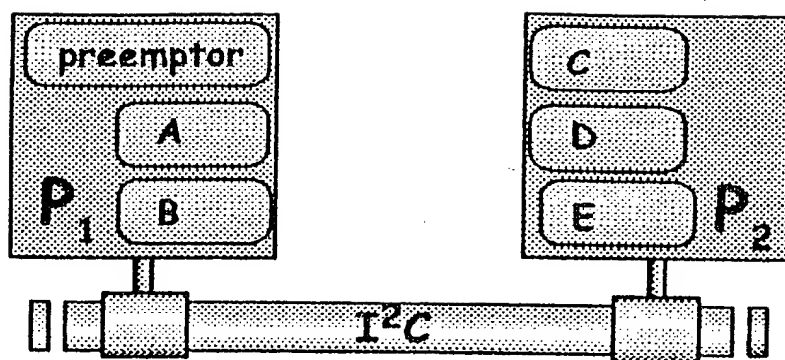
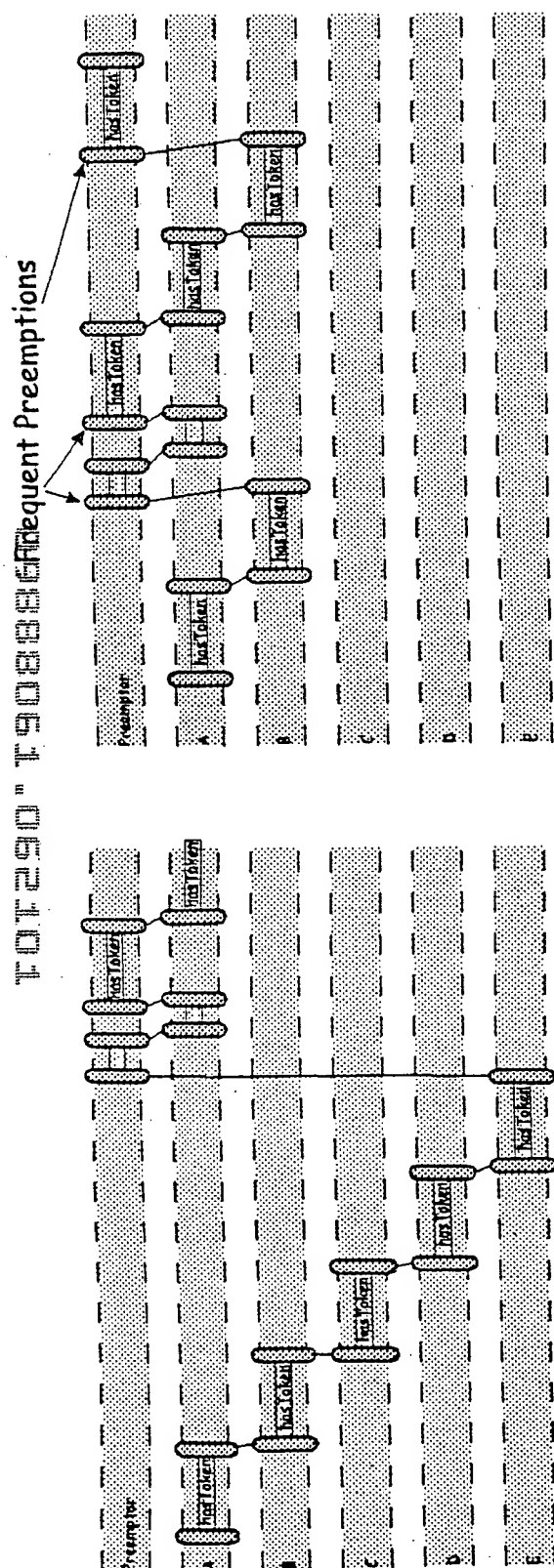
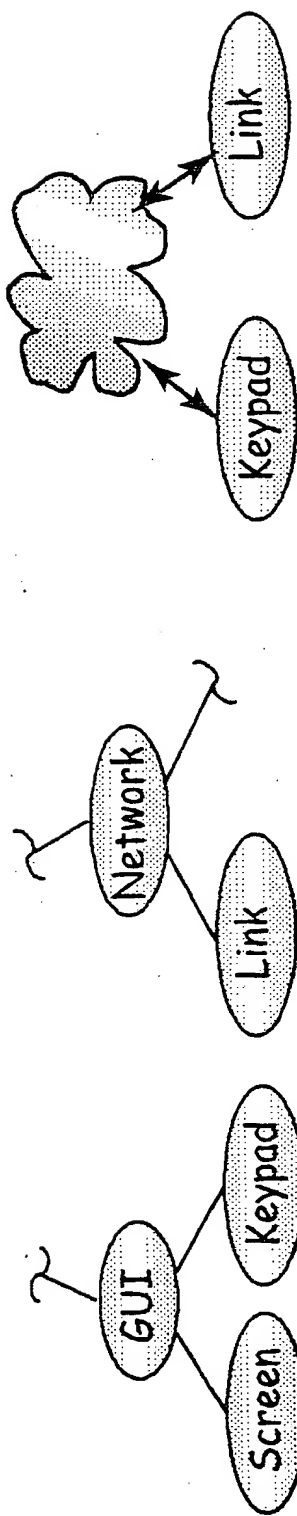
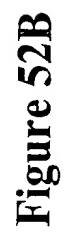


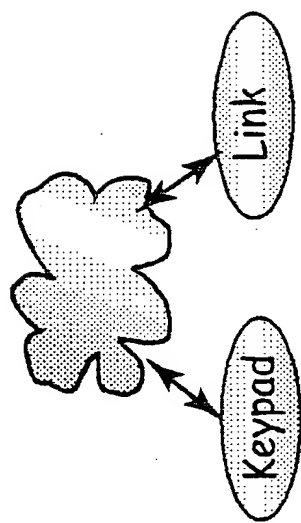
Figure 51B



**Figure 52A**



**Figure 53A**



**Figure 53B**

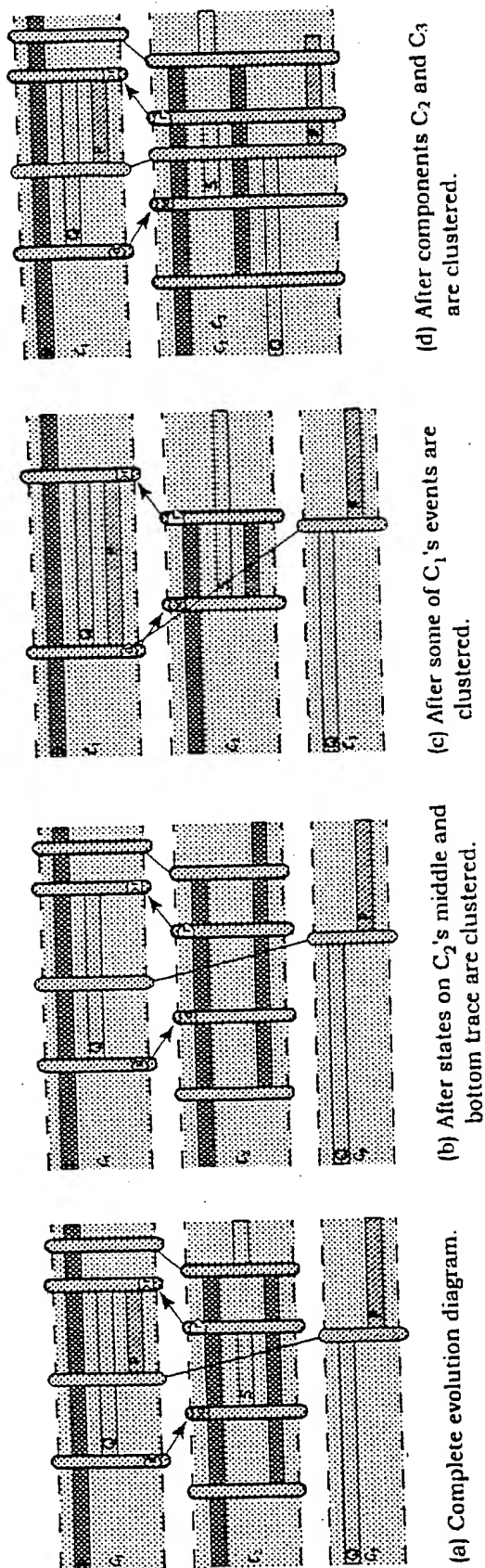


Figure 54

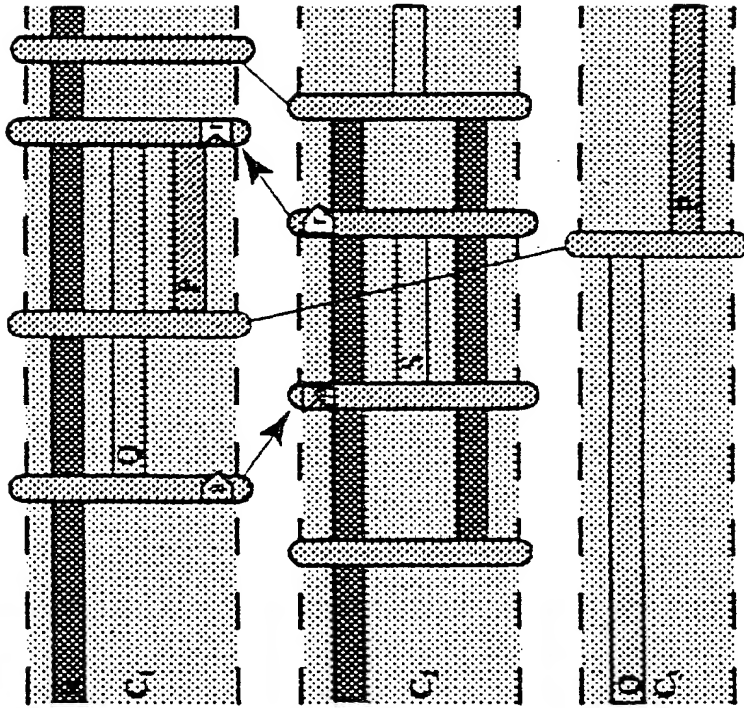


Figure 55A

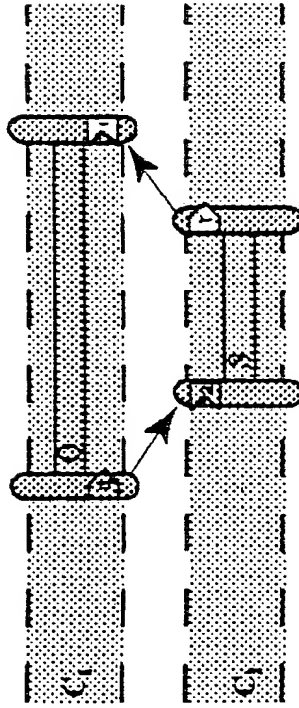


Figure 55B